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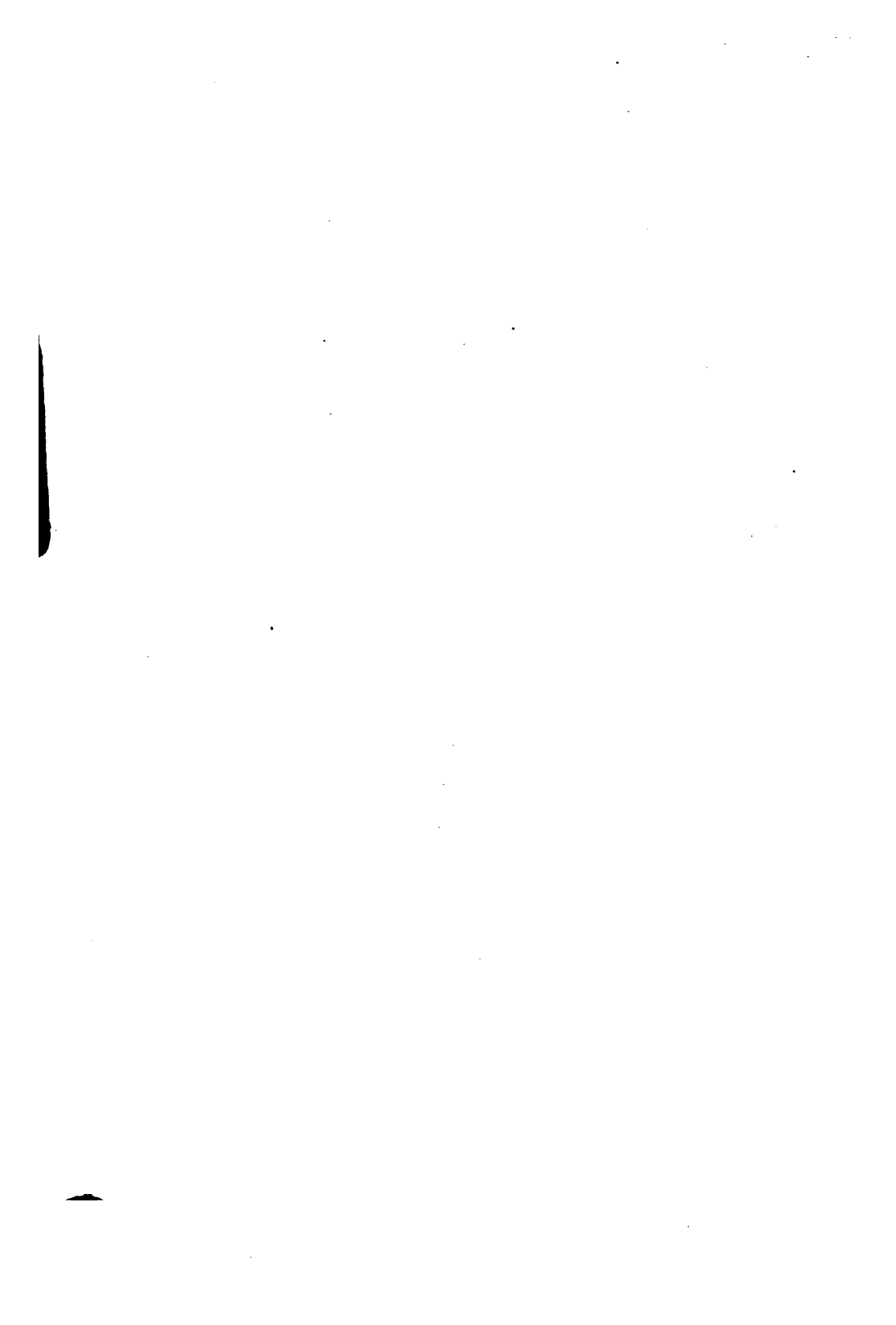
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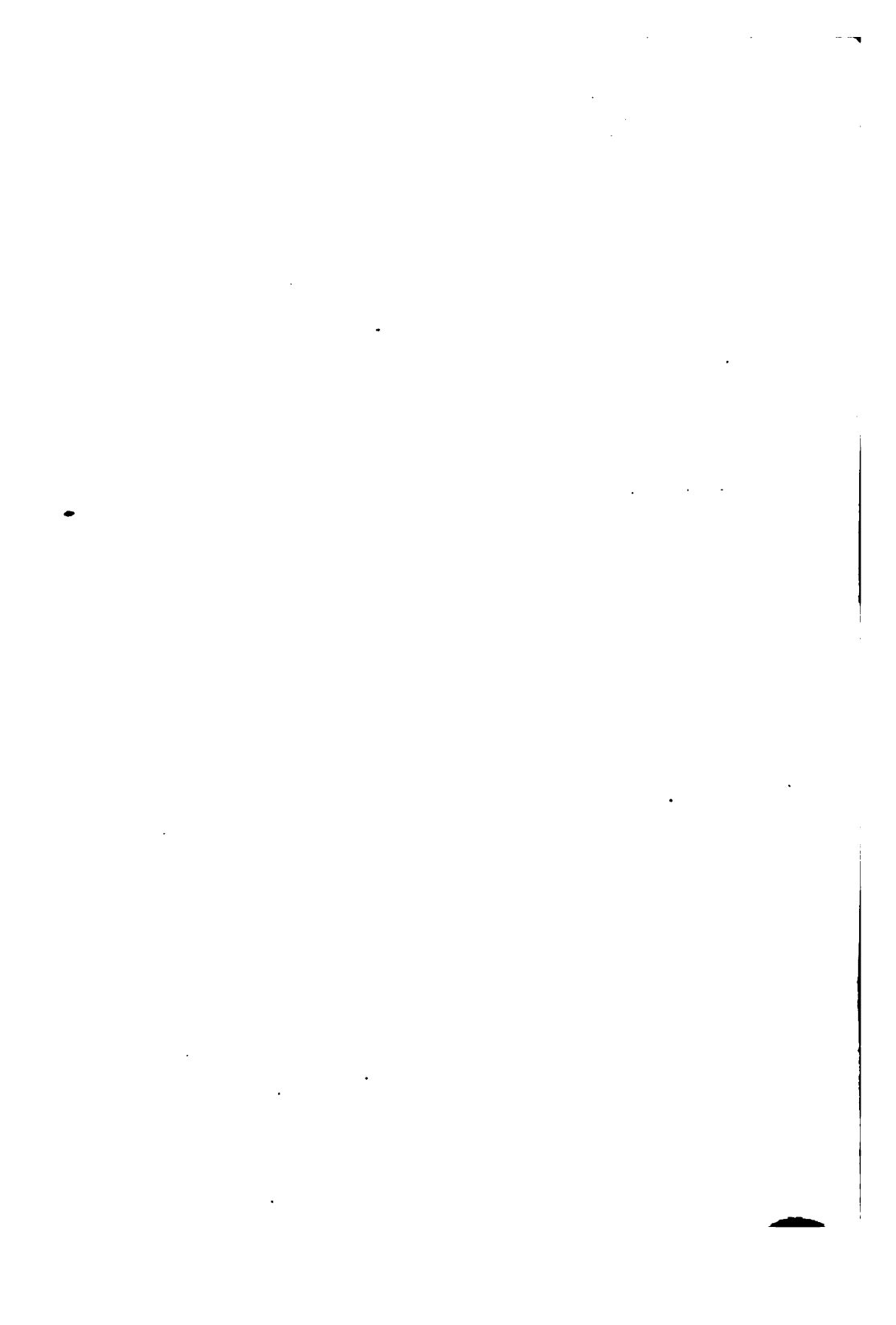
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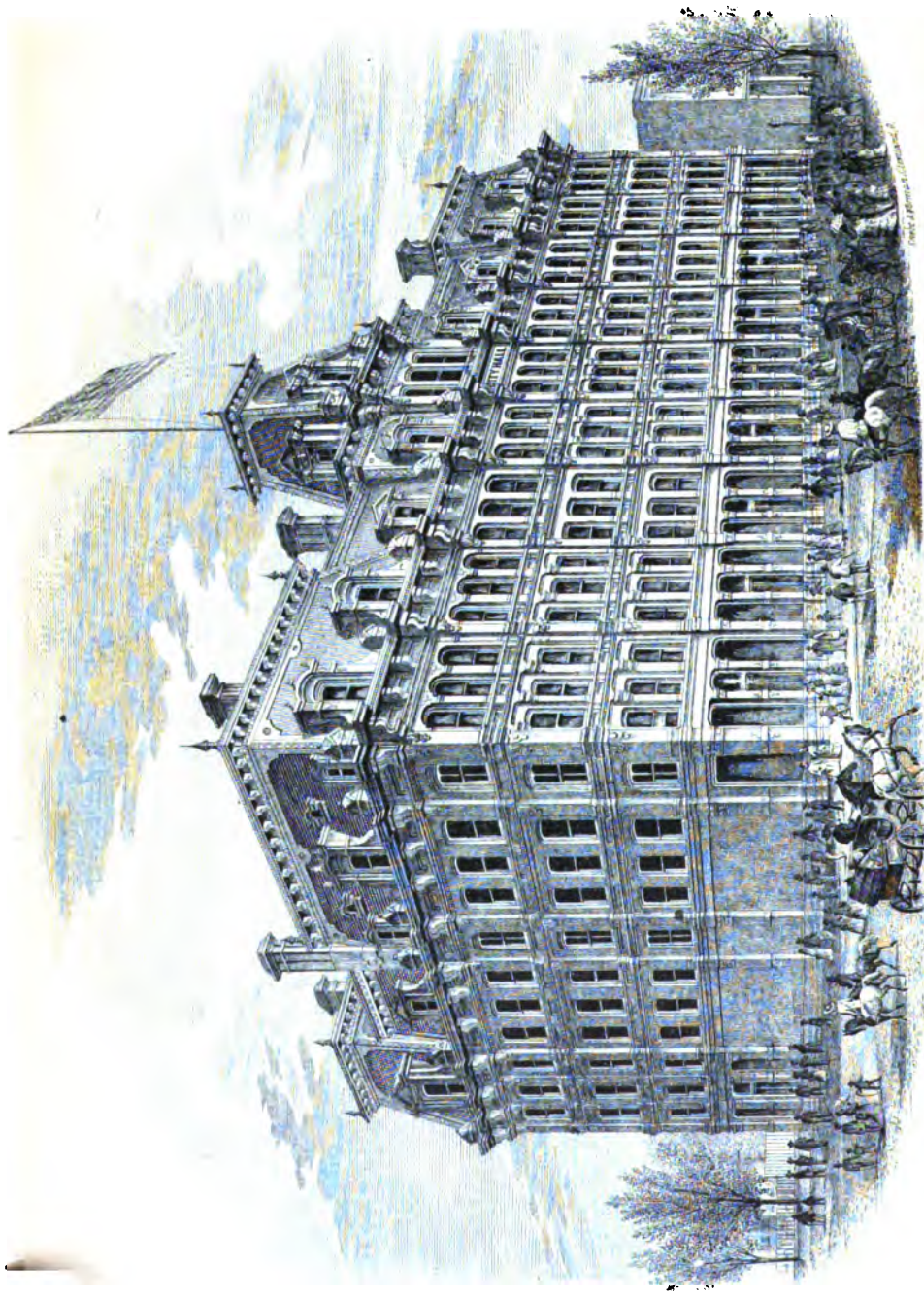
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REPORTS
OF THE
DEPARTMENTS OF THE GOVERNMENT
OF THE
CITY OF CLEVELAND
FOR THE
YEAR ENDING DECEMBER 31, 1881,
TOGETHER WITH THE
ANNUAL MESSAGE OF MAYOR R. R. HERRICK.



PUBLISHED BY ORDER OF THE CITY COUNCIL.

CLEVELAND, O.:
HOME COMPANION PUBLISHING CO.,
1882.

TABLE OF CONTENTS.

City Government.....	3
The City Council and Council Committees.....	4-5
The Departments.....	6-8
Annual Message of Mayor R. R. Herrick.....	9-57
Annual Report of the City Auditor.....	59-136
Annual Report of the City Treasurer.....	137-157
Annual Report of the Sinking Fund Commissioners.....	159-166
Annual Report of the City Clerk	167-175
Annual Report of the City Solicitor	177-190
Annual Report of the City Civil Engineer.....	191-224
Annual Report of the Board of Improvements.....	225-234
Annual Report of the Street Commissioner.....	235-250
Annual Report of the Board of Park Commissioners.....	251-255
Annual Report of the Trustees of Water Works.....	257-322
Annual Report of the Board of Police Commissioners.....	323-402
Annual Report of the Police Court.....	403-416
Annual Report of the Health Department.....	417-459
Annual Report of the Board of Fire Commissioners.....	460-510
Annual Report of the Directors of the Workhouse and House of Refuge and Correction.....	511-582
Annual Report of the Board of Infirmary Directors.....	583-598
Annual Report of the Board of Cemetery Trustees.....	599-614

CITY GOVERNMENT
OF THE
CITY OF CLEVELAND

MAYOR,
R. R. HERRICK.

CITY CLERK,
W. H. ECKMAN.

CITY SOLICITOR,
GEORGE S. KAIN.

CITY AUDITOR,
HENRY FORD.

CITY TREASURER,
S. T. EVERETT.

CITY CIVIL ENGINEER,
B. F. MORSE.

STREET COMMISSIONER,
FRANK REILEY.

THE CITY COUNCIL, 1882-3.

DAVID MORISON, PRESIDENT.

WM. M. BAYNE, PRESIDENT PRO-TEM.

W. H. ECKMAN, CLERK.

JOHN VANEK, 1ST ASS'T CLERK. J. C. DELAMATER, 2D ASS'T CLERK.

MISS S. A. BARTLETT, 3D ASS'T CLERK.

LIEUT. PHILIP ANTHONY, SERGEANT-AT-ARMS.

FRANK HARRIS, PAGE.

TRUSTEES:

Wards.	Names.	Term Expires.	Names.	Term Exp's.
1st....	Chas. Burnside	1883	T. M. Warner.....	1884
2d....	David Morison.....	1883	Chas. B. Bernard	1884
3d....	C. C. Schellentrager.....	1883	Dominick Carr.....	1884
4th....	Jno. N. Stewart.....	1883	P. M. Spencer.....	1884
5th....	Arnold Green.....	1883	W. P. Chard	1884
6th....	Wm H. King.....	1883	William Grant	1884
7th....	John I. Hoehn.....	1883	Arthur Devine.....	1884
8th....	Patrick Smith.....	1883	Edward Cowley.....	1884
9th....	A. T. Van Tassel.....	1883	J. B. Coffinberry.....	1884
10th....	Thos. H. Cahoon.....	1883	W. M. Bayne.....	1884
11th....	M. A. Gross	1883	J. A. Gilbert	1884
12th....	Robert Simpson	1883	J. L. Athey.....	1884
13th....	A. C. Caskey.....	1883	Philip Gaylord.....	1884
14th....	Frank Karda	1883	Frank Buettner	1884
15th....	J. W. Grimshaw.....	1883	W. W. Phillips	1884
16th....	J. D. Schiely	1883	H. Clark Ford	1884
17th....	A. H. Stone	1883	Chas. A. Post	1884
18th....	A. J. Hamilton	1883	F. L. Morris.....	1884

STANDING COMMITTEES.

<i>Appropriations</i>	SPENCER, FORD, WARNER.
<i>Bathing and Bathing Houses</i>	WARNER, CAHOON, SPENCER.
<i>Breakwater</i>	COWLEY, HOEHN, KARDA.
<i>Carriages and Express Wagons</i>	DEVINE, POST, SMITH.
<i>City Property</i>	HAMILTON, BURNSIDE, COFFINBERRY.
<i>Claims</i>	CASKEY, ATHEY, STEWART.
<i>Department Examination</i>	BAYNE, SCHELLENTRAGER, CASKEY.
<i>Elections</i>	HAMILTON, GRIMSAAW, VAN TASSEL.
<i>Finance</i>	STONE, HAMILTON, SPENCER.
<i>Fire and Water</i>	KING, CHARD, DEVINE.
<i>Harbors and Wharves</i>	CAHOON, SMITH, BURNSIDE.
<i>House of Correction</i>	SCHIELEY, PHILLIPS, GAYLORD.
<i>Health and Cleanliness</i>	GRANT, SCHIELEY, GILBERT.
<i>Infirmary</i>	GAYLORD, BUETTNER, GRANT.
<i>Judiciary</i>	FORD, GREEN, BERNARD.
<i>Legislation</i> , MORISON, STONE, BANNE, FORD, the MAYOR, CITY AUDITOR, CITY SOLICITOR, CITY CLERK.	
<i>Licenses</i>	BERNARD, COFFINBERRY, KING.
<i>Lighting</i>	SIMPSON, GRANT, GROSS.
<i>Markets</i>	BURNSIDE, VAN TASSEL, MORRIS.
<i>Military Affairs</i>	VAN TASSEL, GRIMSHAW, KING.
<i>Ordinances</i>	STEWART, STONE, SCHELLENTRAGER.
<i>Parks and Public Grounds</i>	GREEN, MORRIS, BUETTNER.
<i>Police</i>	STEWART, KARDA, CAHOON.
<i>Printing</i>	WARNER, BAYNE, PHILLIPS.
<i>Public Buildings</i>	POST, SIMPSON, BAYNE.
<i>Public Offices and Officers</i>	STONE, CHARD, COWLEY.
<i>Railroads</i>	GROSS, SCHIELEY, GREEN.
<i>Rules</i>	MORISON, EX-OF., FORD, DEVINE, BERNARD.
<i>Sewers and Sowerage</i>	CASKEY, BURNSIDE, GILBERT.
<i>Schools</i>	MORRIS, CARE, HOEHN.
<i>Streets</i>	BURNSIDE, STONE, KARDA.
<i>Street Railroads</i>	CHARD, GAYLORD, ATHEY.
<i>Viaduct and Canal Lands</i>	HOEHN, CARE, SIMPSON.
<i>Water Works</i>	GRIMSHAW, GROSS, KING.
<i>Taxes and Assessments</i>	BERNARD, COFFINBERRY, POST.

DEPARTMENTS.

BOARD OF IMPROVEMENTS.

HON. R. B. HERRICK, PRESIDENT EX-OFFICIO.
CHAS. BURNSIDE, FRANK LYNCH,
CHAIRMAN COM. ON STREETS. CITIZEN MEMBER.
B. F. MORSE, FRANK RIELY,
CIVIL ENGINEER. STREET COM'R.
M. M. HOBART, CLERK.
MISS NELLIE A. FITCH and MISS JOSIE B. SCHAMBS Assistant Clerk.
Regular meetings on Monday and Friday, at 10 A. M.

POLICE.

BOARD OF COMMISSIONERS.

HON. R. B. HERRICK, PRESIDENT EX-OFFICIO.
DR. A. B. HALLIWELL, W. H. GABRIEL.
GEORGE W. SHORT, J. H. BRADNER.
THOMAS KING, SECRETARY.

Regular meetings of the Board on first and third Tuesdays of each month.

J. W. SCHMITT, SUPERINTENDENT.

JAS. MCMAHON, DEPUTY SUP'T. H. HOEHN, JR., CAPTAIN.
H. HOLZWORTH, DETECTIVE CAPTAIN.

POLICE COURT.

GEORGE B. SOLDERS, JOHN B. FRASER,
POLICE JUDGE. PROSECUTOR.
WM. BAXTER, CLERK.
R. M. CORDES, Ass't Clerk. J. W. FRANCISCO, Ass't Clerk.

FIRE.

BOARD OF COMMISSIONERS.

F. H. KAUFHOLZ, PRESIDENT.
WM. H. KING, CHAIRMAN COMMITTEE ON FIRE AND WATER.
CITIZEN MEMBERS.
JOSEPH SLAGHT, J. D. SHANNON, N. WEIDENKOPF.
A. J. SPENCER, SECRETARY.

Regular meetings of the Board on the first and third Tuesdays of each month,
at 7:30 P. M.

JAMES DICKINSON, CHIEF.

H. H. REBBECK, JOSEPH SPEDDY,
FIRST Ass't CHIEF. SECOND Ass't CHIEF.
A. A. CAVANNAH, THIRD Ass't CHIEF.

PARKS.

BOARD OF COMMISSIONERS.

DR. A. EVERETT, PRESIDENT.

J. H. WADE,

J. M. CURTIS.

W. H. ECKMAN, CLERK.

Board meets at the call of the President.

WATER WORKS.

BOARD OF TRUSTEES.

S. W. SESSIONS, PRESIDENT.

W. H. LUTTON,

WALTER BLYTHE.

H. C. HAWKINS, SECRETARY.

JOHN WHITELAW, SUPERINTENDENT AND ENGINEER.

Board meets on the fifth of each month.

WORKHOUSE AND HOUSE OF CORRECTION.

BOARD OF DIRECTORS.

W. S. STREATOR, PRESIDENT.

L. F. BURGESS, VICE PRESIDENT.

GEO. H. WARMINGTON,

C. A. OTIS.

W. D. PATTERSON, SUPERINTENDENT.

JOHN A. MCINTOSH,

W. C. LOOMIS,

DEPUTY SUP'T WORKHOUSE.

DEPUTY SUP'T REFUGE DEPT.

MRS. MARGARET A. PATTERSON, MATRON.

Board meets on the first Tuesday of every month, at 2:30 P. M.

BOARD OF HEALTH.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

A. J. COOK,

H. W. KITCHEN,

W. J. SCOTT,

C. C. DEWSTOR,

J. F. ARMSTRONG,

W. H. HUMISTON.

G. C. ASHMUN, HEALTH OFFICER.

W. H. FARRAND, SECRETARY.

Board Rooms, No. 2, first floor. Board meets first and third Thursdays
in each month, at 7:30 P. M.

INFIRMARY.

BOARD OF DIRECTORS.

WILLIAM CUBBON, PRESIDENT.

GEORGE KEIFFER,

JACOB BLUIM, CLERK.

PETER HIGGINS.

JAMES CHRISTIAN, SUPERINTENDENT.

THOMAS ROME, STEWARD.

B. W. HOLLIDAY, PHYSICIAN.

MRS. THOS. ROME, MATRON.

Regular meeting of Board first Tuesday of each month.

CEMETERY TRUSTEES.

JACOB MEYER, PRESIDENT.

O. C. SCOVILL, TREASURER.

THOS. DIXON.

L. W. BAILEY, SECRETARY.

Board meets first Monday in each month.

S. F. DRAKE, SUP'T WOODLAND CEMETERY.

E. M. BISHOP, SUP'T ERIE ST. CEMETERY.

VALENTINE WORTH, SUP'T MONROE ST. CEMETERY.

JAMES MCGUFFY, SUP'T HARVARD GROVE CEMETERY.

SINKING FUND COMMISSIONERS.

H. B. PAYNE,

S. T. EVERETT,

CHAS. HICKOX.

W. BINGHAM,

J. H. WADE.

BOARD OF REVISION.

HON. R. R. HERKICK,

GEO. S. KAIN.

DAVID MORISON.

MARKETS.

C. BECK, SUPERINTENDENT.

C. O. EVARTS, CITY SEALER.

S. S. GARDNER, CITY WEIGHER.

HARBORS AND WHARVES.

CAPT. JOHN KIRBY,

CAPT. WM. LOGIE,

HARBOR MASTER.

PORT WARDEN.

STREET DEPARTMENT.

FRANK REILEY,

STREET COMMISSIONER

ANNUAL MESSAGE
OF THE
MAYOR
TO
THE CITY COUNCIL,

DELIVERED APRIL 17TH, 1882.

HON. R. R. HERRICK, MAYOR.

MAYOR'S ANNUAL MESSAGE.

Gentlemen of the City Council:

In compliance to time honored custom, and in conformity with the law, I herewith submit my Annual Message in relation to municipal affairs for the past fiscal year. Eighteen hundred and eighty-one was an eventful year in the history of Cleveland, especially so in the role it assumed in paying its tribute of love and honor in the last funeral rites to our beloved son, patriot and statesman, President James A. Garfield. On Saturday, September 24th, 1881, the Nation transferred its charge of his remains to the especial keeping of the City of Cleveland. Cheerfully our people accepted the sacred trust and with grateful, though sorrowful hearts, and loving hands discharged faithfully the sad duties entrusted to them. We received with tender care and watchfully guarded all that was earthly of the President we honored, the statesman we admired and the man we loved, until the following Monday, September 26th, 1881, when his body, followed by thousands of sorrowing hearts, amid the solemn tolling of bells, the funeral peal of artillery and the sound of muffled drums, was gently placed in a vault in Lake View Cemetery, there to remain until a more fitting

tomb shall be erected, commensurate with his record, where he will sleep the sleep of the just.

The generous response and efficient labors on behalf of the City Council in conjunction with our worthy citizens in executing a National trust with so much harmony and decorum deserve special commendation.

May the subsequent duties pertaining to this trust be performed in accordance with the will of the Nation and our deep appreciation of our beloved and martyred President.

The importance of the position which you hold as the legislative branch of our city government should not be underestimated. Your responsibility is of no common order. You are entrusted with this charge at a time of general prosperity. At no time within the past decade has business been so prosperous as during the past year. Our city is receiving her full share of the benefits growing out of the revival of all industries throughout the land.

Cleveland to-day and in the past has kept pace with and far outstripped many of the larger cities in population, wealth and enterprise. During the last ten years we have advanced from the position of fifteenth to that of eleventh in size of the large cities of the Union, and at no time in her history has our city shown such marked and rapid development as during the year just passed. We have increased in population since the Federal census of 1880 more than twenty-five thousand. The rapid growth of Cleveland in the past, the prosperous condition of all its industries and its location as the natural market of the mineral wealth, not

only of our own State, but of the Lake Superior region, the superior advantages that this locality has for all kinds of manufacturing cannot admit of a question as to its future.

The following table shows the population of Cleveland by decades from the date of the arrival of the first man to the present time ; also the average annual increase during decennial periods :

Year.	Population.	Increase in Ten Years.	Average Annual Inc. in each dec'de
1796..	3	.....	.....
1810.....	57	51	5.1
1820.....	150	93	9.3
1830.....	1,075	925	92.5
1840.....	6,071	4,996	499.6
1850.....	17,600	11,529	1,152.9
1860.....	43,417	25,817	2,581.7
1870.....	92,829	49,412	4,941.2
1880.....	160,142	67,313	6,731.3
1881—January 1st.....	167,413	.....	.....
1882—January 1st.....	185,851	.....	.....

We are now called upon to make needed and extensive improvements commensurate with this rapid growth. We should not only be mindful of the present but remember that posterity also has its rights. Duty requires us to assume reasonable burdens for the benefit of those who come after us. No community, were it otherwise, could have those splendid municipal accommodations and the benefits result-

ing therefrom which are not and can never be had immediately, since they require years for maturity and fruition.

Our Water Works should be extended with capacity to supply the entire city and provide for future demands. Our streets are in a deplorable condition and need immediate attention. Main and intercepting sewers are required in districts not yet provided. These improvements are a sanitary necessity. All needed improvements of a general character should be promptly provided for. This can be done without inconvenience or increase of debt, provided proper use is made of the means at your command. In the past the city has labored under the embarrassment occasioned by lending her credit by issuing bonds for special local improvements that should have been undertaken and executed by private enterprises. Not less than a million of dollars, to say nothing of the interest paid, has been thrown upon the general duplicate to be paid by tax-payers having no interest in or benefit therefrom. The city has substantially extricated herself from all such obligations and it is to be hoped that it will be the settled policy of this city not to inaugurate the system again.

Whatever the interests of the city require, whatever its credit, safety and prosperity demand our constituents will expect we will do to the extent of our lawful power and ability. We should exercise a wise and judicious economy in all our municipal expenditures. As far as practical we should endeavor to extricate ourselves from debt and secure

a sound footing rather than to increase our debt by an indiscriminate issuing of bonds.

It will be observed by the following table that the tax duplicate in 1876 was substantially the same as it was in 1880. Between these years there was a large falling off in valuation; in 1877 more than two million dollars decrease; in 1878 still more, and in 1879 there was a reduction of more than three million dollars, while the tax levy for each of these years was gradually less, except the levy of 1880, which was a trifle more than that of 1879, but materially reduced from that of 1876 and 1877:

Year.	Valuation.	Rate of Levy for Entire Expense.
1875.....	\$73,305,277	18.75
1876.....	73,562,237	18.75
1877.....	71,296,122	17.85
1878.....	70,139,639	15.35
1879.....	70,548,104	15.05
1880.....	73,647,194	15.75
1881.....	79,647,156	14.05

The entire indebtedness, general and special is, \$151,550.00 less to-day than in 1875; and \$2,196,417.73 less than in 1879. In 1874 the city department funds were overdrawn \$416,612.05, and the city issued bonds to the amount of \$400,000 to make up the deficiency. Since that date all the departments have had a good balance credit at the close of the year. The bonded debt in 1879 was \$61.89 per capita. Jan-

uary 1st, 1882, it was \$38 per capita. This estimate is made without reference to the Sinking Funds, which amount to nearly \$2,000,000.

The cost of running the city government in 1876 was \$980,748.12, in 1879, \$732,290.44, in 1880, \$784,017.62, in 1881, \$811,651.08, or \$119,097.04 less than in 1876, with an increase of population during this period of about 60,000. The steady decrease of the bonded indebtedness with corresponding reduction in the tax levy since 1878 should be a matter of congratulation. The bonded debt was reduced during the past year \$850,800, making a total reduction of debt in all forms in the past three years of \$2,196,417.73. Prior to 1879 the city's debt had increased each year for many years. This decrease in the city's debt has been accomplished without inconvenience or detriment to the city's prosperity, and with a gradual reduction in the tax levy. It is true that we have not yet undertaken some of those public improvements that are prominent in larger cities. We have, however, to that extent given to the tax-payers the benefit of this saving of expense with a result that our industries have not been over-taxed or discouraged by a rapidly accumulated debt, their business has been extended and capital has sought and found employment.

Much has been said about the slow progress made in our public improvements, and it often happens that the Mayor is the object of censure whether the complain be that of extravagance or economy. The truth of the matter is, that whenever called upon to make any very extensive public

improvements, the people have failed to endorse any legislation which would tend to increase the tax levy.

The time for judicious management is the present, we should not burden the city with a debt to be paid in less prosperous days. Though the increase in the value of real and personal property upon the tax duplicate be no more rapid in the future than in the past, the present bonded indebtedness of the city can be paid at maturity without material increase, if any, of the present levy, unless some extraordinary demand beyond that already contemplated, is made by the public. Improvements and the demands made upon us must be promptly but judiciously met. To become extravagant or undertake needless improvements, or lend the city's credit in private enterprises or in any manner bring about a condition of things which will necessitate an increase of our tax levy will tend to defeat our prosperity by crippling our manufacturing industries and thereby destroy successful competition. It should be the aim of the City Council, on business principles, to establish a levy that will be uniform from year to year. Nothing can be more detrimental to business interests than a fluctuating tax levy.

The levy should be sufficient to meet all ordinary or reasonable expenses, and become staple in its nature. Tax payers then could have some definite assurance of their obligations to the City, and business generally would be better served thereby. We should throw around all industries such a mantle of protection as will enable them to compete successfully with other localities. Capital will

always withdraw from any city overburdened with debt or taxes. We are at present in a condition to secure beneficial results and we shall be found unfaithful to our trust if the attainment of this end is not made the inspiration and guide of our official action.

TABLE NO. 1.
RECEIPTS AND DISBURSEMENTS.

Name of Fund.	Receipts, incl'g Bal. on hand Jan'y 1, 1881.	Disburse- ments.	Bal. on hand Jan'y 1, 1882.
Armory.....	\$ 2,066 39	\$ 1,738 66	\$ 327 73
Bridge.....	37,286 42	34,667 33	2,619 09
Dredging.....	86,189 30	79,426 57	6,762 73
Fire Department.....	150,208 11	148,713 43	1,494 68
General.....	154,128 36	127,933 77	26,194 59
House of Correction....	83,703 61	79,052 10	4,651 51
Interest.....	404,073 51	395,665 83	8,407 68
Infirmary.....	42,144 00	39,853 41	2,290 59
Lighting.....	98,359 96	91,781 95	6,578 01
Market.....	35,245 60	28,631 04	6,614 56
Police Court.....	19,915 78	10,918 34	8,997 44
Police Department.....	134,823 21	133,440 40	1,382 81
Park.....	9,698 54	8,947 09	751 45
Street.....	85,194 35	73,411 38	11,782 97
Sanitary.....	20,083 29	16,044 44	4,038 85
Sinking—for Gen'l B'ds..	122,815 65	106,895 38	15,920 27
Viaduct Sinking.....	389,108 42	.....	389,108 42
Viaduct.....	1,022 26	94 50	927 76
Water Works.....	288,399 44	222,360 74	66,038 70
Water Works Sinking....	1,697,811 89	444,962 87	1,252,849 02
Total	\$3,862,278 09	\$2,044,539 23	\$1,817,738 86

This table shows the entire monied resources of the city for 1881. Estimating the assets of the several Sinking Funds at par the total amounts to \$3,862,278.09; disbursements, \$2,044,539.23, leaving a balance on hand January 1st, 1882, of \$1,817,738.86, and every fund in credit.

TABLE No. 2.
ANALYZED STATEMENT OF DISBURSEMENTS—GENERAL FUNDS.

Funds.	Ordinary Expenses.	Am't Paid for work done in former years.	NewBuild'gs, Land and other Imp'vts	Cost of Court Judges and Miscel's Exp.	Am't of Taxes Paid.	Am't Transferred to other Funds.	Total Disbursements.
Bridge.....	\$ 34,667 33						\$ 34,667 33
Dredging.....	56,766 57	\$22,660 00					79,426 57
Fire Department.....	145,533 35		\$ 3,180 08				148,713 43
General.....	116,546 13			\$2,673 44	\$6,410 34	\$2,303 86	127,933 77
House of Correction.....	79,052 10						79,052 10
Infirmary.....	39,528 41		325 00				39,853 41
Lighting.....	88,153 46		3,628 49				91,781 95
Market.....	9,977 20		8,500 00	153 84		10,000 00	28,631 04
Police Court.....	10,918 34						10,918 34
Police Department.....	133,440 40						133,440 40
Park.....	8,947 09						8,947 09
Street.....	71,252 26		764 56			1,394 56	73,411 38
Sanitary.....	16,044 44						16,044 44
Water Works.....	67,324 25		155,036 49				222,360 74
Total.....	\$378,151 33	\$22,660 00	\$171,434 62	\$2,827 28	\$6,410 34	\$13,698 42	\$1,095,181 99

Table No. 2 presents an analyzed statement of the disbursements from the general funds of the city government. It appears that the total disbursements of these funds were \$1,095,181.99 ; the ordinary expenses were \$878,151.33. The sum of \$13,698.42 was transferred from one fund to other funds and not absolute expenditures, although it must appear as such in the accounts kept with the funds.

There has been an increase of \$27,633.46 the past year over 1880 in ordinary expenses. This is attributed largely to the general advance in the cost of labor and material. The amount expended for dredging alone was \$36,038.90 in excess of 1880, and in the Street Department, \$10,836.78. To off-set this, however, we find that the House of Correction Department has expended \$34,082.21 less than 1880, and the Fire Department, \$2,893.25 less. Where the increase has been is shown by the following table:

TABLE NO. 3.
DISBURSEMENTS.

Fund.	1880	1881	Increase.	Decrease.
Armory		824 00	\$ 824 00	.....
Bridge	\$ 33,166 46	34,667 33	1,500 87	.....
Dredging.....	20,727 67	56,766 57	36,038 90	.....
Fire Department	148,426 60	145,533 35	.....	\$2,893 25
General	107,280 54	116,546 13	9,265 59	.....
House of Correction.	113,134 31	79,052 10	.....	34,082 21
Infirmary.....	38,887 11	39,528 41	641 30	.....
Lighting.....	88,113 87	88,153 46	39 59	.....
Market.....	10,174 43	9,977 20	.....	197 23
Police Department...	132,792 50	133,440 40	647 90	.....
Police Court.....	10,346 69	10,918 34	571 65	.....
Park	7,631 20	8,947 09	1,315 89	.....
Sanitary.....	12,920 76	16,044 44	3,123 68	.....
Street	60,415 48	71,252 26	10,836 78	.....
Total.....	\$784,017 62	\$811,651 08	\$64,806 15	\$37,172 66

TABLE NO. 4.
COMPARISON OF THE CITY DEBT—JANUARY 1, 1881 AND 1882.

JANUARY 1, 1881.	
General bonds outstanding.....	\$6,326,250 00
Special bonds outstanding.....	1,589,000 00
Notes for Pelton Park outstanding.....	33,333 34
Certified estimates outstanding.....	2,283 34
Over drafts in special accounts.....	116,072 12
<hr/>	
Total debt January 1, 1881.....	\$8,066,938 80
JANUARY 1, 1882.	
General bonds outstanding.....	\$5,888,250 00
Special bonds outstanding.....	1,176,200 00
Notes for Pelton Park outstanding.....	16,666 68
Notes for dredging loan outstanding.....	18,000 00
Certified estimates outstanding.....	2,283 34
Over-drafts in special accounts.....	242,019 09
<hr/>	
Total debt January 1, 1882.....	\$7,343,419 11
<hr/>	
Decrease of total debt in 1881.....	\$ 723,519 69

COMPARISON OF THE MUNICIPAL LEVY OF 1880 AND 1881.

City levy of 1880—being 15 15-20 mills per dollar on a valuation of \$73,647,194.00.....	\$1,159,943 31
City levy of 1881—being 14 1-20 mills per dollar on a valuation of \$79,586.156.00.....	\$1,118,185 49
<hr/>	
Levy of 1881 less than that of 1880 by.....	\$ 41,757 82

From this table it will be observed that the city's debt was decreased during the year \$723,519.69. The above item specified as "Overdrafts in special accounts" is composed of uncollected taxes for local and special improvements, that have been expended and not yet collected from

the abutting property owners. The account is fully explained in the City Auditor's Report, in Table No. 3.

TABLE NO. 5.

DEPARTMENTS THAT ARE SELF-SUSTAINING.

Department.	Income.	Expenditures.	Balance.
Water Works.....	\$240,157 42	\$222,360 74	\$17,796 68
Police Court.....	18,120 70	10,918 34	7,202 36
Market.....	33,980 33	18,631 04	15,349 29
Total.....	\$292,258 45	\$251,910 12	\$40,348 33

TABLE NO. 6.

GENERAL AND SPECIAL BONDED DEBT.

Year.	General Bonds.	Special Bonds.	Total.
1875	\$4,709,000 00	\$2,552,000 00	\$7,226,000 00
1876	5,160,000 00	2,937,900 00	8,097,900 00
1877	5,577,000 00	3,027,900 00	8,604,900 00
1878	6,061,000 00	2,993,164 00	9,054,164 00
1879	6,678,000 00	2,606,100 00	9,284,100 00
1880	6,201,000 00	2,390,100 00	8,591,100 00
1881	6,326,250 00	1,589,000 00	7,915,250 00
1882	5,888,250 00	1,176,200 00	7,064,450 00

The above table shows the general and special bonded debt of the city for the past eight years, and also shows the decrease in the bonded debt during 1881 to be \$850,800.

The management of the city's debt for the past year was as follows, to-wit:

TABLE NO. 7.

GENERAL BONDS OUTSTANDING JANUARY 1, 1881.

Water Works.....	\$1,200,000 00
Funded Debt.....	1,758,000 00
Infirmary.....	42,000 00
Dredging.....	61,000 00
Park.....	318,250 00
Canal.....	275,000 00
Viaduct.....	2,138,000 00
House of Correction.....	184,000 00
School.....	350,000 00
	<hr/>
	\$6,326,250 00

GENERAL BONDS ISSUED IN 1881.

Funded Debt.....	\$ 87,000 00
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GENERAL BONDS PAID IN 1881.

Water Works.....	\$ 400,000 00
Infirmary.....	6,000 00
Dredging.....	19,000 00
School.....	100,000 00
	<hr/>
	\$ 525,000 00

Decrease in General Bonds.....	\$ 438,000 00
Total General Bonds outstanding January 1, 1882.....	5,888,250 00

SPECIAL INDEBTEDNESS—BONDS OUTSTANDING
JANUARY 1, 1881.

Street Improvement....	\$ 462,500 00
Street Damages.....	710,000 00
Sewers.....	416,500 00
	<hr/>
	\$1,589,000 00

BONDS PAID IN 1881.

Street Improvement.....	\$ 189,300 00
Street Damages.....	164,500 00
Sewers.....	59,000 00
	<hr/>
	\$ 412,800 00
Special Debt outstanding January 1, 1882.....	\$1,176,200 00
Decrease of Special Debt in 1881.....	412,800 00
Decrease of General Debt in 1881:	438,000 00
	<hr/>
Total decrease in Bonded Debt.....	\$ 850,800 00

TOTAL INDEBTEDNESS IN ALL FORMS JANUARY 1, 1882.

General Bonds outstanding.....	\$5,888,250 00
Special Bonds outstanding.....	1,176,200 00
	<hr/>
Total Bonded Debt January 1, 1882.....	\$7,064,450 00
Notes for Pelton Park unpaid.....	16,666 68
Certified estimates unpaid.....	2,283 34
Overdrawn special accounts.....	242,019 09
Notes for dredging loan unpaid.....	18,000 00
	<hr/>
	\$7,343,419 11
Total Debt January 1, 1881....	8,066,938 80
	<hr/>
Total decrease in 1881....	\$ 723,519 69

BONDS ISSUED DURING THE PAST EIGHT YEARS.

It is with a degree of satisfaction that I call your attention to the following table, which shows the amount of bonds issued by the city each year during the past eight years, and indicating a marked decrease from year to year, especially during the past three years.

TABLE NO. 8.

1874—Amount of Bonds issued for all purposes	\$2,321,700
1875 " " " "	1,498,200
1876 " " " "	1,274,500
1877 " " " "	1,289,824
1878 " " " "	1,121,538
1879 " " " "	426,200
1880 " " " "	371,250
1881 " " " "	87,000

PUBLIC IMPROVEMENTS.

The report of the Board of Improvements and the City Civil Engineer for the past fiscal year show that no extensive public improvements have been made or undertaken during the past year.

A large number of ordinances providing for the paving and repaving of many of our public streets have been passed, and the contracts for performing the work entered into, and these streets will be repaved during the coming season. It is the opinion of the Board of Improvements that stone is the only suitable material to be used in paving all principal thorough-fares. It also seems to be the prevailing opinion among the members of the City Government that the cost of repaving a street which has been once paved at the expense of the abutting property owners should be equally divided between them and the city, and that subsequently it should be kept in repair and maintained at the expense of the city. This policy, however, should be put into definite shape, so as to establish a permanent

method for maintaining our public streets in the future. By this means abutting property owners will have definite knowledge of their respective obligations to street improvements. There are a number of principal streets other than those for the paving of which ordinances have been passed, which should be paved as soon as practicable.

BOARD OF IMPROVEMENTS.

There is no department of the city government so closely identified with the interests of the tax payers as this board. The statutes place in their hands the supervision of all improvements, and the care of a large portion of the property of the city, and their recommendation is necessary before any extensive improvement can be undertaken. It is important that this board be composed of men of good judgment. The duties of the board are arduous and require close attention and much time. The city is to be congratulated upon having secured for the past year the services of gentlemen so well qualified and willing to devote their time gratuitously in this department. The present citizen member and the chairman of the council committee on streets, our City Civil Engineer and Street Commissioner are men of the right type, and have proved themselves faithful public servants.

A disposition has been manifested on the part of many of our citizens to hold the Board of Improvements responsible for the present bad condition of some of our principal streets, and their feelings have at times found expression

through the public press. I am convinced that were these persons better informed of the powers of the board under the law, and its past action with reference to these streets, they would see the error of their position and the injustice which they do the board. In this connection permit me to say that the board has no legal power to begin any improvement. It can only recommend to the council such improvements as in its judgment should be entered upon, and then must await the action of the council with reference thereto. While no improvements can be made without the recommendation of the board, neither can any be made without the council shall first order the same and provide the means therefor. The board has during the past three years recommended to the City Council the passage of ordinances providing for the repaving of many of those streets that have unfortunately been paved with wood and concrete, and they have also recommended that steps be taken to raise the necessary funds by taxation in conformity to the "Burns Law," but owing to the depressed times the people claimed that they were not prepared to meet the burden that would necessarily be imposed upon them, hence these important improvements have been deferred until a large number of our public streets are in that condition which from a sanitary necessity demand immediate attention. No blame or censure, therefore, should in equity attach to the Board of Improvements for this apparent neglect in street improvements. At present there appears to be a disposition on the part of the people, and the city government will heartily

indorse their desires to improve our principal thorough-fares. These improvements should be continued from year to year until the needs of the city in this direction have been fully met.

The City Civil Engineer and Street Commissioner have made mention of many valuable suggestions relative to street improvements in their respective annual reports, which I would commend to your careful consideration.

During the year the former Clerk of the Board was promoted to the position of Assistant City Solicitor, an office he is well qualified to fill; his successor has filled the place made vacant faithfully, and to the satisfaction of the Board.

SEWERS.

The necessity of providing immediately for intercepting sewers, which shall ultimately discharge their contents into the lake, east of the city limits, cannot be questioned.

An open sewer (for the Cuyahoga River is nothing less) through the center of our city cannot long be tolerated without serious results.

The plans submitted by the City Civil Engineer and recommended by your committee on health, the Board of Health and your committee on sewers and sewerage, cannot but meet with your approval. I would recommend that your honorable body proceed to take the necessary steps to complete these contemplated improvements as soon as practicable.

The cost of the intercepting sewer should be paid from the general fund of the city, but the main sewers should be a charge on the district or water sheds drained thereby.

The policy of paying for a sewer by a tax upon the district wherein it is located has, in the past, worked satisfactorily, and the same seems equitable and just. This policy should be continued, as any change would work hardship upon such districts as have built and paid large amounts already, and at their own cost have provided their districts with ample sewerage. This improvement can be commenced and prosecuted to completion without materially increasing our present debt.

District and general sewerage bonds can be issued from time to time, as the work progresses, and yet not exceed the amount of bonds in value that will be retired each year, the payment of which is provided for. Hence, we can make all the needed improvements of this nature without increasing either our debt or the present rate of levy.

DREDGING.

During the past year more money than usual has been expended in this department, and considerable of this work was accomplished in the fall which generally is not undertaken until the coming season. It is the opinion of the City Civil Engineer that it will require less expense to keep the river in a navigable condition during the coming year than last. This is a department that should be properly looked after, and every effort should be made to secure

sufficient depth of water, so as not to impede commercial interests along our river front, which has some eleven miles of dockage, including the old river bed.

Ample means should be provided to meet the demands of this department.

HEALTH DEPARTMENT.

Doubtless it is well known that this department has had undivided control of the sanitary affairs of the city only since May 1st, 1880. Shortly prior to that date, under an act of the General Assembly of the State of Ohio, a Board of Health was established, being clothed thereby with full authority to act in all sanitary matters of the city, except the removal of garbage, etc., and for this authority a bill was passed by the Legislature the present month. I am free to say that no department of the city government has shown more efficiency during the past year than this, notwithstanding the numerous adverse criticisms to the contrary. Unfortunately, during the past few years, many large manufactories, of an offensive character and injurious to health, have been allowed to locate within the city limits and some within the populated portion of the city. The stench emanating from these establishments, especially during the nights in the summer season, has rendered a large section of the resident portion of the city unfit, and from a sanitary standpoint, unsafe for people to dwell in.

The Health Department has had much to contend with in this direction, and it has fought strenuously these stench-

breeding establishments with perseverance, and with a marked degree of success. It is not to be expected that these nuisances can be eradicated at once. They have been tolerated for many years, until they have become unbearable, and proper and judicious steps must be taken to abate them, without inflicting serious loss upon the proprietors.

During the past year, under the direction of the board, many of these establishments have applied improved machinery, and have succeeded in destroying the offensive gases emanating therefrom, and others have located their works outside of the city limits.

Early in 1881 the board took steps to protect our city from the terrible scourge, small pox, which has been so prevalent and secured so strong a footing in many of our neighboring cities. The result has been that but twelve cases have made their appearance in the city during the past year, and in most instances these were brought here from other cities. Immediately upon notice of such complaint, the Health Officer has personally examined into and caused the strictest quarantine regulations, and in every instance succeeded in stamping out the infection where it originated; and only one death has occurred in the city during the past year from the result of this disease.

The season of 1881 was peculiarly a year for malarial and contagious diseases throughout the country. The bulletin of the National Board of Health in its report of mortality for the year 1881 publishes a comparison of the mortality of one hundred and sixty-one cities and towns in the United

States, in which report Cleveland is far below the average of all and below the record of a large number of cities that compare favorably in population with Cleveland.

The people are indebted to the watchful care and vigilance of the Health Officer and Board of Health, which is comprised of men of experience, learning and respectability.

The requirements of this board will increase as the city increases and it should be well supported by a liberal annual appropriation.

The following report from the National Board of Health Bulletin will show the mortality from small pox, fevers and diphtheria in the following cities for the year 1881:

Cities.	Small Pox.	Fevers.	Diphtheria.	Death Rate per 1000 of Populat'n.
Chicago	854	385	613	27.2
Pittsburgh	450	634	209	28.6
Buffalo	4	320	193	25.6
Cleveland	1	265	184	23.5
Milwaukee	2	196	122	23.2
Cincinnati	60	276	105	24.3
Brooklyn	35	1,053	1,165	25.2
New York	450	3,007	2,248	31.9
Philadelphia	1,336	1,177	449	23.0

WATER WORKS DEPARTMENT.

The annual report of the Trustees, Superintendent, and Secretary of this department are complete and very satisfactory. This department has been self-sustaining since

1859, and in the meantime has earned over and above running expenses and repairs \$1,218,648.47.

The total cost of work including pipe construction, etc., in this department to January 1st, 1882, has been \$2,812,696.43. This, however, does not include interest on debt which has been paid from tax levies, with the exception of \$121,984.59, which amount has been paid out of its earnings. The net earnings for 1881 were \$171,205.61, an increase over the net earnings of 1871 of \$125,255.66. The net earnings of 1881 will pay more than six per cent. on the entire cost of the water works. I have already called the attention of your honorable body to the importance of extending the water supply where there is an urgent demand for the same. This is especially true of the Eighteenth Ward and other portions of the city which have quite recently become thickly populated. An effort should be made to meet the demands of these people as speedily as practical.

The extensive character of this department, the variety and complexity of its requirements, and its important relation to the sanitary condition of the city, makes it one of the most important of any connected with the city government, and it should be protected and fostered with extreme care. The efficient corps of officers deserve great credit for the good management of this institution in the past, and I take great pleasure in commending them to your careful consideration as custodians of this department.

It is with deep sorrow that I refer to the death of Truman Dunham, Esq., who for several years past has presided over this department. Few men can fill the position he held, none more acceptably. He was a true type of manhood, intellectually, morally, physically and socially. His death was a public calamity. His counsel will be missed by his associates on this board, and the city has lost one of its best citizens.

INFIRMARY DEPARTMENT.

In this department a wise discrimination is at all times required in dispensing charity to the needy and deserving. The object is to assist the poor and infirm, and to reduce vagrancy and pauperism in the city. The officers of this department deserve special commendation for the efficient manner in which they have discharged their duties.

As an auxiliary to this department there has been established by generous and philanthropic citizens a society known as "The Society for Organizing Charity." This institution is based upon the principles that "Idleness is the Devil's foreman," and that promiscuous and indiscriminate giving is not charity.

While the city is desirous of helping all deserving persons, at the same time its aim is to prevent indolence, idleness, pauperism, and crime. This institution is supplying a want long needed in our community, and its object is to co-operate with all other charitable institutions, and thus

by their united efforts to eradicate, as far as possible, pauperism from the city.

According to the report of the Infirmary Department,

Total number admitted at the Infirmary in 1880.....	393
Total number admitted at the Infirmary in 1881.....	461
	<hr/>
Increase in 1881.....	68
Applicants relieved by out-door relief in 1880	1,156
Applicants relieved by out-door relief in 1880	1,013
	<hr/>
Decrease in 1881.....	143

WORK SYSTEM.

Work orders issued in 1881.....	256
Work orders approved in 1881	158
Days work.....	282
Amount earned.....	\$288 63

It is customary to issue orders for one or two days' work under the department of out-door relief. The above shows that nearly one-half refused to accept relief on the terms proposed, which illustrates the theory that many of the above were probably professional mendicants who are desirous of being supported in idleness, by an indiscriminate giving of the generous public.

The following table shows for itself what is being accomplished in this department, and indicates the care and attention bestowed by the officers in the performance of their duties:

Year.	Number of Inmates.	No. of Appli- cations for Out-door Rel.	Annual Expenditure.	Produce of Farm.
1875.....	807	4,126	\$81,256 21	\$3,884 50
1876.....		3,517	.....	.....
1877.....	727	3,113	100,911 36	4,037 44
1878.....	611	1,894	63,985 17	4,689 44
1879.....	601	1,857	40,447 46	4,360 15
1880.....	686	1,549	44,655 13	4,113 30
1881.....	800	1,474	42,140 10	4,891 69

The cost of keeping inmates per week during the past year was \$1.18.

From the above table we observe that while the inmates increase from year to year, the number of applicants for out-door relief decreases. As the city increases it would be natural to expect that applications to both of these departments would increase in like proportion, but by their able management the directors have succeeded in discouraging idleness and indolence in so great a degree, that we find such is not the case.

POLICE DEPARTMENT.

There are many important suggestions which should commend themselves to your favorable consideration in the report of this department.

In proportion to our population, there is no city in the country that has so small a police force as Cleveland.

Section 1929 of the Revised Statutes provides for the appointment of one patrolman for each seven hundred and fifty inhabitants, as shown by the last Federal census. This would entitle the city to two hundred and thirteen patrolmen, or an increase of fifty-five men. The large increase of commerce along the river front for the past few years has demanded a like increase of police for its protection, and by complying so far as possible with these demands the resident portion of the city has been deprived of suitable protection. The immense territory to be patrolled within our city limits, and the limited number of patrolmen on duty at any one time, has, unfortunately, been an incentive doubtless for some to commit depredations.

The question arises: What is the best method to relieve the present embarrassment of this department? The "Police Telephone System," as adopted in Chicago, Cincinnati, St. Louis and Milwaukee, meets with the highest commendations, and in my opinion it is more effective and less expensive than any other means we can adopt at present. As established in Chicago, the city is divided into districts or precincts, about two miles square, with the station near the center of each. Sentry boxes are placed at intervals on all streets within said precincts. The dial within the sentry box is divided into different sections, bearing the words, "Fire," "Accident," "Riot," etc., and by moving the pointer to any one of the sections, a like registry is made at the station by wires connecting with each box, thus indicating the cause of the alarm and the nature of assistance needed.

At the station a horse and wagon is kept in charge of three policemen, day and night, and upon a call from any section of the precinct, they are at once driven on the run to the scene of excitement, or whatever may have been the occasion of the call. They will have with them all the necessary appliances to secure the most vicious or dangerous persons, and the officer doing patrol duty will not be obliged to leave his beat. This system is also valuable in requiring all officers on duty to report their whereabouts at stated times while on their beats, and if necessary, they could be readily summoned to appear at headquarters at once.

This system would obviate the necessity of a large increase of patrolmen and it would also be a great aid and assistance to the Fire Department.

Responsible citizens could be provided with keys. Banks, mercantile houses, manufactories, residence, etc., would avail themselves of the opportunity of securing a connecting wire and sentry box which would often be of inestimable valuable in summoning aid and protection in time of need.

I would, therefore, commend this system to your careful consideration, believing that it will meet with your approval and prompt action. The table below shows the population of the following cities according to the last Federal census, and the number of police employed in each:

Cities.	Population.	Police.
Philadelphia.....	846,984	1,200
Brooklyn.....	566,689	599
Chicago.....	503,304	502
Boston.....	362,535	752
St. Louis.....	350,522	472
Baltimore.....	332,190	550
Cincinnati.....	255,708	346
Cleveland.....	160,142	158
Pittsburgh.....	156,381	180
Buffalo.....	155,137	231
Detroit.....	116,342	187
Providence.....	104,850	170

SICK AND WOUNDED IN THE PUBLIC STREETS.

I again call your attention to the fact that it is a frequent occurrence that some one is injured or becomes helpless upon the public streets of our city. Delay in many of these instances is quite liable to result in death. It is especially essential that there should be speedy and prompt action in these cases, by the Police and Health Departments.

Full power should be delegated to these boards to provide for the protection and removal of persons found upon our public streets, suffering from sickness or accident.

One or more beds should be secured in each of our hospitals. This can be done with little expense and should not be delayed.

Although theoretically it may appear that ample provision has been made by the city for the care of such persons through the Infirmary Department, yet practically the present arrangement when speedy action is necessary, is of little use or value and cannot be relied upon. The City Infirmary has a good hospital attached, with appliances, accommodations, attendants and a physician adequate to care for the paupers in that institution. This might be used to meet the wants above described of those cases occurring adjacent thereto and not requiring the immediate attention of a physician, or surgical skill and attendance. The only ambulance belonging to the city is kept at the Infirmary, remote from the populous portion of the city, and is used in connection with that institution to transfer its inmates, and when especially needed is quite liable to be otherwise occupied. In all cases of extreme suffering or peril suitable conveyance should be had which will secure rapid and comfortable transit.

Under the provisions of the statutes and ordinances of the city regulating the powers of the Infirmary Board to provide for the poor, the time required in investigating before relief can be had (in cases of emergency) makes its action too slow and uncertain, and besides, its rules and regulations do not properly apply to the class of cases herein referred to and were not enacted for this purpose. Any person, citizen or stranger whether of respectability and abundant means or otherwise is liable to be overtaken by accident, rendered unconscious and may perhaps

be unrecognized. If the Board should conclude that the laws and ordinances which govern it were applicable to cases of this nature, would the citizens of Cleveland feel proud to know that such persons, if they survive the journey "over the hills to the poor house," were classed with the indigent poor of the city and county. I feel confident that upon investigation of this important matter this sadly neglected want will be provided for.

WORKHOUSE.

The eleventh annual report of the Directors of the Workhouse and House of Refuge and Correction shows a balance to its credit of \$4,651.51.

The report of the management of this department during the past year is indeed very satisfactory. Under the management of the new Board of Directors many extensive and valuable improvements have been made on the premises. A two-story brick building has been constructed, much of the labor pertaining to the same having been performed by the inmates. The first floor of this building is utilized as a coal house and the upper as a drying room and laundry. One fire-proof building has been constructed for the purpose of a storage house. The old coal house has been remodeled into a boiler room; the old worn-out boilers have been replaced by three new steel boilers of fourteen feet in length and five feet in diameter; stone flagging has been laid, and other needed improvement made during the year. The report shows a decrease

in expenditures over 1880 of \$34,081.21. This department had a balance January 1st, 1881, of \$7,300.81, while its balance of January 1st, 1882, was \$4,651.51, falling short, therefore, \$2,649.30 from being self-sustaining during the past year. At the commencement of the year an appropriation of \$25,000 was solicited for the institution by the former Board of Directors, and apparent dissatisfaction was manifested on refusal to grant the desired appropriation. Special credit therefore is due this department in thus reducing its expenditures and having a creditable balance at the close of the year.

I heartily concur in the opinion expressed by the Board of Directors that the House of Refuge and Correction should be separate and distinct from the Workhouse. Although these departments are as distinct as circumstances will permit under one roof, yet the stigma that of necessity attaches to a workhouse will in a degree follow all those unfortunate juveniles who have been or may be sent to this institution. And it is especially desirable that some more suitable quarters should be provided for the unfortunate girls and young women who, having committed some offense or misdemeanor, are compelled to be placed under some reformatory influence, and while serving out their term of sentence they should not be subject to the contaminating influence of association with old and hardened culprits.

Number of inmates in the Workhouse at the beginning of the year..	259
Number of inmates received during the year.....	1,547
	<hr/>
Number imprisoned within the year	1,836
Number discharged during the year	1,519
	<hr/>
Number remaining at the end of the year.....	317

Of the whole number imprisoned during the year 1,496 were males and 340 females.

The prisoners have been transported, since the termination of the contract for the same, from the Central Station to the Workhouse by the team and driver in the employ of the Workhouse, and the saving of expense to the Police department by this change should be credited to the Workhouse fund.

It is indeed gratifying to learn that this institution has, in all probability, become nearly, if not quite self-supporting. Its object as a penal and reformatory institution should be encouraged, and from time to time, as necessity requires, improvements should be made in keeping with the institution and the growth of the city. The Board of Directors, in their annual report, have made many valuable suggestions and recommendations with a view to increase the efficiency of this department, and I would respectfully commend their report to your careful consideration, and that such aid and recognition may be given to this institution as you may deem wise and judicious. It is with reluctance that I here refer to the resignation of the former Board of Directors. We have been especially fortunate in securing to the

city men to fill their places who possess every qualification of the former Board, and in whom we have the fullest confidence, being assured by their many years of large business experience, that they will faithfully perform the duties of their trust to the entire acceptance of the people.

FIRE DEPARTMENT.

The affairs of this department have been conducted with commendable skill and good judgment, reflecting credit upon the Board of Commissioners, as well as the officers and men of the department. It can be truthfully said that no city can present a more efficient or better managed fire brigade. I commend for your consideration their annual report, replete with valuable information.

MILITARY ORGANIZATIONS.

Our present organizations with their high degree of efficiency should reasonably assure our citizens from fear of any great loss of life or property from those causes which it is in the power of the military to suppress.

The entire military of the city have within the past year received the highest encomiums from those holding the most prominent positions in the army for the services rendered by them in the duties they were called upon to discharge at the obsequies of President Garfield.

The Cleveland Grays and First City Troop have been especially honored by being singled out from all others and given the positions of honor at Washington during the

inaugural ceremonies of one year ago and again September 24th, 25th, and 26th. During those sad days of a nation in mourning they stood sentry over and did not leave their trust until the iron gates closed securely those precious remains within a vault in Lake View Cemetery.

No less notice or credit, however is due to our First Light Artillery, who upon that memorable night awakened our people by language that forcibly and sadly announced to them that our President was dead.

It needed no stimulant to urge these men to their post of duty. Before the message sent over the wires from Long Branch was hardly written and delivered their battery had thundered forth the sad news to more than one hundred and seventy-five thousand people. Nor did they cease till the rising and setting of the next day's sun to speak fourth their sorrows.

Our Fifth Regiment performed equally well the part assigned to them. For days and nights they left homes and comfort to guard a nation's trust. And so with all, on every occasion, when called upon, the response universally has been with alacrity and cheerfulness.

No better equipped company can be found or men of better mettle and qualities than those who make up our Gattling Gun Battery. This is a valuable and well disciplined organization. Many of its members have seen service and all can, in my opinion, be relied upon in time of emergency. No city of the size of Cleveland can boast of a better military organization.

LAW DEPARTMENT.

The report of the City Solicitor shows that good work is being done in protecting the city's interest in the vast amount of litigation in which it is involved.

There were, it appears, three hundred and seven cases pending at the beginning of and commenced during 1881. Of these two hundred and eighty-five were actions against the city in which the claimants sought to recover in the aggregate \$440,774.51. There were disposed of during the year twenty-six cases, involving claims against the city of \$62,118.62, but the total recovery was only \$560.81. This result, so favorable to the city, speaks for itself of the care, labor and skill which has characterized the administration of this department in the conduct of the city's litigation. But it should be remembered that the labor of this office is not confined to trial of cases in court. Much of the business transacted by the city during the past year has been of a very important nature. A number of new improvements have been inaugurated, reforms have been attempted in the methods of municipal management, and efforts made to correct some defects in municipal law. Many questions, intricate and important, have arisen involving the rights, powers and duties of the city. All of these have required the careful consideration of the Solicitor, and his advice has been sought and obtained with almost every step that has been taken.

The Solicitor's duties have been greatly increased by this unusual influx of business, but he has proved himself equal to the task imposed.

The city is fortunate in having at the head of this department, than which there is none more important, one who can be relied on as a strong advocate and safe counsellor in all matters in which her interests are concerned. If the first year of Solicitor Kain's term is any index of what the remainder will be, we may rest assured that for the next three years at least the city will be ably protected in all her legal rights, and will be guided safely by all legal rocks and shoals.

LICENSES.

I am satisfied that the revenue derived from this source is entirely too small and would respectfully recommend that you give this matter special consideration. Other cities have established successful license systems, some of which would aptly apply to our city. There are certain business pursuits which demand special protection and which involve special expense for their accommodation; such should contribute to the expense of maintaining the Municipal Government in the nature of a license. Under our present system the largest cost and expense in maintaining our government falls upon the real estate, and these expenses should be equalized as far as practical upon all enjoying protection and special accommodations offered by the city. The amount received for license during 1881, as shown by the report of the City Clerk, was only \$16,487.75.

STREET RAILROADS.

The question of the occupancy of the public streets by street railroads and the consideration which they should pay for the privilege they enjoy is becoming a special subject of interest to tax-payers. It is thought by some that these railroads should contribute more than in the past toward the cost and expense of keeping the streets occupied by them in repair and proper condition. In the City of New Orleans the franchise for two lines of street railroads, for a period of twenty-five years, sold for the sum of \$630,000, and the bonus for the franchise of four street railroads, for a period of twenty to twenty-five years sold for \$970,000. St. Louis requires the payment of \$5,000 annually and a regular tax on all real and personal property owned by the various companies, and in addition a license of \$25 a car for all cars used.

In Baltimore the street railroad companies are required to pave and keep in repair between the rails and two feet outside and pay over to the city twelve per cent. of their gross receipts and a license fee of \$5 for each car besides the regular tax levied upon all of their property. In Philadelphia the street railroad companies keep the streets in repair from curb to curb and pay a license of \$50 for each car and a dividend of six per cent. to the city whenever they declare a like dividend to the stockholders. In Cleveland the only revenue to the city is a license of \$5 for each car, the regular tax levy and the paving and keeping in repair between the rails of their various tracks. These companies share equally

with the people the benefits derived from the Police, Street and Fire Departments, the cost of maintaining which is a charge upon the general fund of the city, and the nominal sum received by the city as a license will hardly re-imburse the city for this extra expense.

I recommend that this subject be carefully considered, and that such legislature be had as may seem just and proper.

PARKS.

The report of the Park Commissioners shows an expenditure during the year of \$8,947.09, leaving a balance in their hands January 1st, 1882, of \$751.45. The parks have been kept up in a creditable condition and in keeping with the refined taste and excellent judgment of the Commissioners. The introduction of drinking fountains has added much to the comfort and convenience of those passing through or frequenting these places.

The erection of an oratorium in Monumental Park is quite essential and will supply a long needed want.

SINKING FUND.

The General Assembly of Ohio in February, 1846, appointed City Commissioners who were authorized to subscribe in behalf of the city of Cleveland for \$100,000 of stock of the Cleveland, Columbus and Cincinnati Railroad Company, and in payment for the same the city was authorized to issue \$100,000 of its bonds. The bonds were issued April 1st, 1848, bearing six per cent. interest, and made pay-

able in 1859. The said railroad company accepted said bonds at par. In April, 1849, a second subscription was made and bonds to the amount of \$100,000 were issued and made payable also in 1859. On this issue of bonds as above described there was levied, to pay interest, on the four wards of the city (then the entire city of Cleveland) the sum of \$24,800.00. Subsequent to 1850, the interest and bonds were paid from the proceeds of the dividend on the stock. In November, 1849, the city issued bonds in payment for stock in the Cleveland and Pittsburgh Railroad Company to the amount of 100,000, the same were made payable in ten years. On this issue the four wards of Cleveland, as before, were assessed a tax amounting to \$37,193.59 for interest, \$14,606.41 of this interest was paid from dividends on the Cleveland, Columbus and Cincinnati Railroad stock, and \$8,200.00 by the Cleveland and Pittsburgh Railroad Company. The Commissioners paid the bonds amounting to \$100,000, to the Cleveland and Pittsburgh Railroad Company at maturity, from the earnings of the Cleveland, Columbus and Cincinnati Railroad stock, together with accrued interest, amounting to \$14,606.41. The \$100,000 of stock of the Cleveland and Pittsburgh Railroad Company received by the city in payment of its bonds, of an equal amount, were sold by the Sinking Fund Commission of 1862, in the latter part of that year for the sum of \$12,527.50, a loss to the city in principal and interest of \$109,262.50

May 1st, 1851, the City Commissioners issued \$100,000 of seven per cent bonds to purchase \$100,000 of Cleveland, Painesville & Ashtabula Railroad stock, payable in ten years. These bonds were sold for ninety-eight per cent. on the dollar, and the four wards, as above, were taxed to pay the difference, \$2,000.00. In August, 1852, a dividend of twenty-five per cent. was declared on said railroad stock, and in March, 1853, another dividend of twenty per cent., and in May, 1854, a further dividend of thirty per cent.

In May, 1854, the Commissioners made a conditional sale of \$100,000.00 of this stock to the Cleveland, Zanesville & Cincinnati Railroad Company for \$125,000.00, the city reserving all dividends and profits accruing therefrom. This stock was subsequently hypothecated by said railroad company to raise money, which necessitated a law-suit by the city to recover it. This controversy lasted until May, 1865, when, by a decision of the Supreme court of Ohio, the city was awarded the sum of \$164,000.00. After paying the bonds issued by the city to the Cleveland, Painesville & Ashtabula Railroad Company, \$100,000.00, the City Commissioners transferred to the Sinking Fund Commissioners of 1862 the surplus earnings of said stock, amounting to \$232,136.19. The total nominal assets transferred by the City Commissioners to the Sinking Fund Commissioners, in May, 1862, were as follows, to-wit:

Cleveland, Columbus and Cincinnati Railroad stock.....	\$ 26,277 29
Cleveland & Pittsburgh Railroad stock.....	102,964 04
Cleveland, Painesville & Ashtabula Railroad stock.....	232,136 19
	<hr/>
	\$361,377 52

During 1862 the Sinking Fund Commissioners sold the \$100,000.00 of the Cleveland & Pittsburgh Railroad stock for \$42,537.50, so that the report of the Sinking Fund Commissioners for January 1st, 1863, showed the total assets as only \$332,059.07.

From this time, however, this fund has increased rapidly. It has paid \$1,387,252.82 of the city's debt, and enough still remains, with its interest and the earnings from the Water Works, to defray the city's proportion of repaving, and to meet the cost and expense of extending the Water Works in the outer wards of the city when the same shall be needed.

The whole amount of tax paid by the original four wards has been to meet the deficiency on its bonds and interest, which amounted to \$63,993.59.

The city has placed in the hands of the Sinking Fund Commissioners another fund, which to-day is much larger than this fund was in 1863, and is now worth about \$400,000.00. This fund is for the redemption of the Viaduct bonds, the first of which mature in 1893, and the last in 1907. The total amount of Viaduct bonds outstanding is \$2,413,000.00.

If this fund should increase in like proportion to the fund of 1862, with the addition of a small yearly levy, it will pay the viaduct indebtedness.

The balance of the general bonds, amounting to \$3,433,250.00, are spread over a period of fourteen years. These bonds are paid from a sinking fund created by an annual levy. The valuation on the tax duplicate, in 1871, was

\$57,841,746.00, and in 1881, as shown by prior tables, \$79,647,156.00; with a similar increase of the valuation, until all the bonds now outstanding fall due, which is in 1907, it is safe to say that provisions are ample to meet, at maturity, the entire present indebtedness of the city, without recourse to any part of the sinking fund of 1862, the cash value of which is not less than \$1,500,000.00. The objects for which this sinking fund was created have been accomplished. The Water Works bonds have all been paid. It has been used in the past for extinguishing our debt caused by local improvements. The sum of \$277,851.44 of this fund was expended in opening and widening Payne avenue, \$89,764.41 in opening Bond street, and \$94,636.97 for opening and improving seven other streets of the city; and in June last the Sinking Fund Commissioners recommended to the Council the appropriation of \$175,000.00 of this fund for improving Wade Park. From a sanitary stand point, there is no public improvement so much needed as the extension of the water works. If this residue of the sinking fund of 1862 can be appropriated and used to open streets and improve or purchase parks, why can and ought it not be used to increase our water supply, and to pay the city's proportion of repaving our public streets, thereby obviating the necessity of issuing bonds and increasing the city debt \$1,400,000.00, that being the amount asked for to complete the water works extension. By using the residue of this fund instead of raising money by the issue of bonds a large saving in cost to the tax payers will be accomplished, as

under existing laws bonds will be sold and the money paid into the treasury before the contracts for this work can be entered into; consequently a large amount of interest will necessarily be lost, whereas, by the use of this fund no money need be paid till the work is performed, the funds remaining in the hands of the commissioners, drawing interest, till needed; and, as it will take from three to four years to complete this water works extension, the city will gain not only the interest, but the earnings of the Water Works Department, amounting to say \$150,000.00 each year, to help bear the burden.

CONCLUSION.

In conclusion I desire to say that all the departments, in my judgment, are ably conducted, and that the respective officers are uniformly honest, capable and efficient. Each department has presented a report to your Honorable Body, of their stewardship during the past year, some of which I have not made personal mention, for the reason that they are so replete with valuable information pertaining to their respective departments, that they explain fully their condition and wants; and there is nothing I could especially suggest except to commend them, with all other reports, to your candid consideration.

I desire to express to the officers of the several departments my gratitude and appreciation of their friendly co-operation in all matters pertaining to the interest of the city.

And to the retiring Council I also would recognize the gratuitous services of the members, and say that while honest differences of opinion as to public policy have arisen, I concede and believe each member of this body has acted according to his convictions of right, and for what he considered the interest of his constituents. Honest differences of opinion are entitled to due respect, but partisan strife and personal malice or intrigue should not be tolerated, as all such acts work serious results, and interfere with a proper administration of municipal affairs. It is to be hoped that good feeling and friendly relationship may continue to exist between the various departments and the Council, and that we may co-operate in furthering the interests and welfare of the city, to the acceptance of the people.

Respectfully submitted,

R. R. HERRICK,
Mayor.

REPORTS OF
CITY OFFICIALS



ANNUAL REPORT
OF THE
CITY AUDITOR
OF THE
CITY OF CLEVELAND,
FOR THE FISCAL YEAR ENDING DECEMBER 31, 1881.

REPORT OF THE CITY AUDITOR.

CLEVELAND, O., January 9, 1882.

To the Honorable City Council :

GENTLEMEN :—I herewith submit the annual statement of the accounts and finances of the city of Cleveland for the year 1881, showing as follows :

Table 1. A general exhibit of resources and disbursements.

Table 2. An analysis of the resources and disbursements of each general fund for 1881.

Table 3. The condition of each fund and account January 1st, 1882.

Table 4. Amount, maturity and proceeds of all bonds issued in 1881.

Table 5. Amount and maturity of general bonds outstanding January 1st, 1882.

Table 6. Amount and maturity of street improvement bonds outstanding January 1st, 1882.

Table 7. Amount and maturity of street damage bonds outstanding January 1st, 1882.

Table 8. Amount and maturity of sewer bonds outstanding January 1st, 1882.

Table 9. Recapitulation of bonds outstanding January 1st, 1882.

Table 10. Certified estimates outstanding January 1st, 1882.

Table 11. Principal and interest of all bonds maturing in each month of 1882.

Table 12. A comparative showing of items included for eleven years from 1871 to 1881 inclusive.

Table 13. The municipal levy for each general fund in the tax of 1881.

Table 14. Amounts levied in the tax of 1881 upon sewer districts.

Table 15. Lists of assessments prepared by the City Auditor and levied in the tax of 1881.

Table 16. Balance sheet.

Special attention is called to the following items in addition to the general tables herewith submitted, showing :

1. Comparison of the ordinary expenses of each department and fund for 1880 and 1881.
2. Comparison of the total city debt January 1st, 1881, and 1882.
3. Comparison of the city levy in the tax of 1880 and 1881.
4. Special debt assumed and paid by the city in 1881.
5. Total special debt assumed and paid by the city prior to January 1st, 1882.
6. Total payments prior to January 1st, 1882, from the Sinking Fund of 1862.
7. Total par value of all sinking funds January 1st, 1882.

COMPARISON OF ORDINARY EXPENSES IN 1880 AND
IN 1881.

FUND.	1880.	1881.	Increase.	Decrease.
Armory.....		\$ 824 00	\$ 824 00	
Bridge.....	\$ 33,166 46	34,667 33	1,500 87	
Dredging.....	20,727 67	56,766 57	36,038 90	
Fire Department.....	148,426 60	145,533 35		\$ 2,893 25
General.....	107,280 54	116,546 13	9,265 59	
House of Correction..	113,134 31	79,052 10		34,082 21
Infirmary.....	38,887 11	39,528 41	641 30	
Lighting.....	88,113 87	88,153 46	39 59	
Market.....	10,174 43	9,977 20		197 23
Police Department....	132,792 50	133,440 40	647 90	
Police Court.....	10,346 69	10,918 34	571 65	
Park.....	7,631 20	8,947 09	1,315 89	
Sanitary.....	12,920 76	16,044 44	3,123 68	
Street.....	60,415 48	71,252 26	10,836 78	
Totals.....	\$ 784,017 62	\$811,651 08	\$64,806 15	\$37,172 69
Deduct.....		784,017 62	37,172 69	
Net increase.....		\$ 27,633 46	\$27,633 46	

**COMPARISON OF THE CITY DEBT JANUARY 1st, 1881,
AND 1882.**

<i>January 1st, 1881 :</i>		
General bonds outstanding.....	\$ 6,326,250 00	
Special bonds outstanding.....	1,589,000 00	
Notes for Pelton Park unpaid.....	33,338 34	
Certified estimates unpaid.....	2,283 34	
Overdrafts in special accounts.....	116,072 12	
Total debt January 1st, 1881.....		\$8,066,938 80
<i>January 1st, 1882:</i>		
General bonds outstanding.....	\$5,888,250 00	
Special bonds outstanding.....	1,176,200 00	
Notes for Pelton Park unpaid.....	16,866 68	
Notes for dredging loan unpaid.....	18,000 00	
Certified estimates unpaid.....	2,283 34	
Overdrafts in special accounts.....	242,019 09	
Total debt January 1st, 1882.....		7,343,419 11
Decrease of total debt in 1881.....		\$ 723,519 69

**COMPARISON OF THE MUNICIPAL LEVY OF 1880
AND 1881.**

City levy of 1880, being 15 $\frac{1}{4}$ mills per dollar on a valuation of \$73,647,194 00.....	\$1,159,943 31
City levy of 1881, being 14 1-20 mills per dollar on a valuation of \$79,586,156 00.....	1,118,186 49
Levy of 1881 less than that of 1880 by.....	\$41,756 82

SPECIAL DEBT ASSUMED AND PAID BY THE CITY IN 1881.

The only bonds issued in 1881 were \$87,000 of Funded Debt bonds to pay a part of the cost of various special improvements, not collectible from specific property, and therefore assumed and paid by the city, as follows:

For Kinsman street paving.....	\$48,770 00	
For Willson avenue opening, north of St. Clair street.....	2,302 07	
For Willson avenue opening, from Sawtell to Broadway.....	2,481 31	
For Willson avenue grading, from Julia to Maurice.....	10,390 00	
For sewers in Districts 1 and 2, East Cleveland.....	9,544 00	
For Walworth Run Bridge improvement.....	19,408 00	
		\$87,885 38
Similar credits were given in 1881 to the following special accounts from the Sinking Fund of 1862, under ordinance passed July 19th, 1880, for amount of special debt assumed by the city:		
For Bond street opening.....	\$27,994 41	
For Central Place opening.....	27,439 93	
For Orange street opening.....	807 57	
For Payne avenue opening.....	84,371 44	
For Marquette street opening.....	3,939 52	
		144,492 87
Total special debt paid by the city in 1881		\$232,388 25

TOTAL AMOUNT OF SPECIAL DEBT ASSUMED AND PAID BY THE CITY PRIOR TO JANUARY 1, 1882.

Paid in 1880 from proceeds of funded debt bonds.....	\$ 276,483 28
Paid in 1881 from proceeds of funded debt bonds.....	87,000 00
Paid in 1881 from general sinking fund.....	895 38
Paid in 1880 from sinking fund of 1862.....	317,759 95
Paid in 1881 from sinking fund of 1862.....	144,492 87
Total special debt assumed and paid by the city	\$ 826,631 46

**TOTAL PAYMENTS FROM THE SINKING FUND OF
1862 PRIOR TO JANUARY 1, 1882.**

Paid in 1878, Water Works bonds.....	\$ 25,000 00
Paid in 1879, Water Works bonds.....	425,000 00
Paid in 1880, Water Works bonds.....	75,000 00
Paid in 1880, special debt assumed by the city.....	317,759 95
Paid in 1881, special debt assumed by the city.....	144,482 87
Paid in 1881, Water Works bonds.....	100,000 00
Collected in 1881, Water Works bonds.....	300,000 00
Total	\$1,387,252 82

TOTAL CREDIT BALANCE OF ALL SINKING FUNDS.

Sinking fund of 1862.....		\$1,252,849 02
Viaduct and Canal Sinking Fund, in the hands of the Sinking Fund Commissioners	\$389,030 87	
In the hands of the City Treasurer.....	77 75	389,108 42
General sinking fund in the hands of the Sinking Fund Commissioners.....	15,128 56	
In the hands of the City Treasurer	791 71	15,920 27
Aggregate of all sinking Funds January 1st, 1882		\$1,657,877 71

TABLE NO. 1.

GENERAL EXHIBIT OF THE RESOURCES AND DISBURSEMENTS OF THE CITY OF CLEVELAND FOR THE YEAR 1881.

RESOURCES.		
<i>Amount in hands of City Treasurer January 1, 1881....</i>		\$ 273,041 05
Proceeds of general taxes.....	\$1154,741 11	
Proceeds of special taxes.....	281,144 89	
Proceeds of sale of funded debt bonds.....	87,000 00	
Proceeds of temporary loan (dredging).....	18,000 00	
Proceeds of sale of Perry street property.....	2,500 00	
Receipts from Brooklyn Street Railroad Company...	9,982 74	
Receipts from Broadway and Newburgh Street Railroad Co.....	3,863 93	
Receipts to the Armory Fund.....	1,456 00	
Receipts to the Bridge Fund.....	888 03	
Receipts to the Fire Department.....	3,139 87	
Receipts to the General Fund.....	16,952 19	
Receipts to the House of Correction.....	76,402 80	
Receipts to the Infirmary Fund.....	8,896 46	
Receipts to the Lighting Fund.....	2 33	
Receipts to the Market Fund.....	33,980 33	
Receipts to the Police Court.....	18,120 70	
Receipts to the Police Department.....	6,337 00	
Receipts to the Sanitary Fund.....	1,998 00	
Receipts to the Street Department.....	5,404 36	
Receipts to the Viaduct Sinking Fund.....	836 00	
Receipts to the Water Works Fund.....	240,157 42	
<i>Received from Sinking Fund Commissioners:</i>		
To pay general bonds.....	108,000 00	
To pay special debt assumed by city.....	144,482 87	
Total receipts for the year 1881.....		2,322,961 08
		\$2,595,402 18

TABLE NO. 1.—Continued.

EXPENDITURES.		
Ordinary running expenses city government.....	\$ 811,651 08	
General bonds paid.....	106,000 00	
Interest on bonded debt.....	395,065 83	
Dredging bonds and interest.....	22,600 00	
Special improvement debt.....	560,870 61	
<i>Permanent improvements:</i>		
Armory.....	914 66	
Fire Department.....	3,180 08	
Infirmary (engine).....	325 00	
New lamp posts, frames, etc.....	3,623 49	
Land West Side Market.....	8,500 00	
Broadway culvert.....	761 56	
Paid for Pelton Park.....	16,606 66	
Paid to Sinking Fund Commissioners ..	120,705 18	
Special tax on city property.....	315 66	
Costs of court general fund.....	1,860 32	
Costs of court Market Fund.....	153 84	
Taxes on City Hall building.....	6,410 34	
Damages paid from general fund.....	425 00	
Draping City Hall (Garfield obsequies).....	388 12	
Viaduct expenses.....	94 50	
Total of pay ordinances passed 1881.....		\$2,070,179 93
Water Works Department expenses.....	\$ 222,360 74	
Special taxes refunded ..	63,149 75	
		285,510 49
Total expenditures for the year 1881.....		\$2,355,690 42
<i>Amount in the hands of the City Treasurer January 1, 1882:</i>		
Water Works Fund.....	\$ 66,038 70	
All other funds.....	166,322 33	
Bonds held in trust...	7,350 68	
		239,711 71
		\$2,595,402 13

TABLE NO. 2.

ANALYSIS OF THE RESOURCES AND DISBURSEMENTS OF THE GENERAL FUNDS FOR 1881.

ARMORY FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 610 39	
Armory rents.....	1,456 00	\$ 2,066 39
DISBURSEMENTS.		
Ordinary expenses.....	824 00	
Balance paid for construction of Armory..	914 06	1,738 06
Cash on hand January 1, 1882.....		327 73
BRIDGE FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	326 11	
General taxes.....	18,043 04	
City's proportion of county tax	18,029 19	
From West Side Street Railway Company (for crossing Viaduct).....	752 00	
From Brooklyn Street Railroad Company (for crossing Viaduct).....	131 12	
Warrant No. 1511, not used, credited back.....	4 96	37,286 42
DISBURSEMENTS.		
Ordinary expenses		34,667 33
Cash on hand January 1, 1882.....		2,619 09
DREDGING FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	42 49	
General taxes.....	32,477 48	
Special taxes.....	35,689 33	
Temporary loan.....	18,000 00	86,189 30
DISBURSEMENTS.		
Ordinary expenses	56,786 57	
Payment of bonds issued in 1876-7-8.....	19,000 00	
Payment of interest on bonds issued in 1876-7-8.....	3,680 00	79,426 57
Cash on hand January 1, 1882.....		6,762 73

TABLE NO. 2.—Continued.

FIRE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 2,723 88	
Taxes.....	144,344 36	
Cash deposited by Secretary.....	3,123 49	
Warrants not used, credited back.....	16 88	
		\$150,208 11
DISBURSEMENTS.		
Ordinary expenses.....	145,533 35	
Permanent improvements.....	3,180 08	
		148,713 43
Cash on hand January 1, 1882.....		1,494 08
GENERAL FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	35,409 50	
Taxes.....	97,432 45	
Reimbursements from special accounts.....	1,834 22	
Sale of property (Nos. 394, 394½ Perry street).....	2,500 00	
City Hall and other rents.....	8,881 92	
Receipts from hay scales, licenses, pounds, etc.....	7,569 54	
From L. S. & M. S. Railway Company.....	404 73	
Warrants credited back.....	98 00	
		154,128 36
DISBURSEMENTS.		
Ordinary expenses.....	116,546 18	
Costs of court.....	1,860 32	
General taxes on City Hall for 1880.....	6,410 34	
Special taxes on city property.....	2,308 86	
Damages paid.....	425 00	
Draping City Hall (Garfield obsequies).....	388 12	
		127,938 77
Cash on hand January 1, 1882.....		26,194 59

TABLE NO. 2—Continued.

HOUSE OF CORRECTION.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 7,300 81	
Cash deposits by superintendent..	75,802 80	
From R. R. Herrick, Mayor (for land sold).....	800 00	
		\$ 83,703 61
DISBURSEMENTS.		
Ordinary expenses.....		79,052 10
Cash on hand January 1, 1882.....		4,651 51
INTEREST FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	21,560 90	
General taxes.....	382,512 61	
		404,073 51
DISBURSEMENTS.		
Interest on bonded debt.....		385,665 88
Cash on hand January 1, 1882.....		8,407 68
INFIRMARY FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	18,813 10	
General taxes.	14,434 44	
From County (Board of Paupers).....	2,765 02	
From City Clerk (licenses, etc.).....	3,061 00	
From Infirmary Clerk (cash).....	2,231 54	
Warrants credited back.....	38 90	
		42,144 00
DISBURSEMENTS.		
Ordinary expenses.....	39,528 41	
New steam engine..	325 00	
		39,853 41
Cash on hand January 1, 1882.....		2,290 59

TABLE NO. 2—Continued.

LIGHTING FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 4,533 79	
General taxes.....	93,823 84	
Miscellaneous receipts.....	2 33	
		\$ 98,359 96
DISBURSEMENTS.		
Ordinary expenses.....	88,153 46	
Lamp posts, frames, etc.....	3,628 49	
		91,781 95
Cash on hand January 1, 1882.....		6,578 01
MARKET FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	1,265 27	
Market rents, premiums, etc.....	33,980 33	
		35,245 60
DISBURSEMENTS.		
Ordinary expenses.....	9,977 20	
Transfer to Street Department.....	10,000 00	
Cost of Court.....	153 84	
Land for West Side Market.....	8,500 00	
		28,631 04
Cash on hand January 1, 1882.....		6,614 56
POLICE COURT FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	1,795 06	
Fines, etc., collected by Police Clerk.....	14,526 35	
Fines, etc., collected at House of Correction.....	8,593 75	
		19,915 78
DISBURSEMENTS.		
Ordinary expenses.....		10,918 34
Cash on hand January 1, 1882.....		8,997 44

TABLE NO. 2—Continued.

POLICE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 5,793 49	
Dog tax.....	6,051 00	
General taxes.....	122,692 72	
Music permits.....	286 00	
		\$134,823 21
DISBURSEMENTS.		
Ordinary expenses.....		133,440 40
Cash on hand on January 1, 1882.....		1,382 81
PARK FUND		
RESOURCES.		
Cash on hand January 1, 1881.....	2,481 33	
General taxes.....	7,217 21	
		9,698 54
DISBURSEMENTS.		
Ordinary expenses.....		8,947 09
		751 45
Cash on hand January 1, 1882.....		
STREET DEPARTMENT,		
RESOURCES.		
Cash on hand January 1, 1881.....	6,805 18	
Taxes,	61,346 36	
Transfer from market.....	10,000 00	
From bondsmen of David McLane, contractor.....	384 50	
Transfer from bridge fund.....	1,471 38	
Amount retained from M. Carroll, contractor.....	97 51	
Collection for street repairs.....	4,972 32	
Miscellaneous receipts.....	117 10	
		85,104 35
DISBURSEMENTS.		
Ordinary expenses.....	71,252 26	
Broadway culvert.. . . .	764 56	
Transfer to bridge fund.....	1,394 56	
		73,411 38
Cash on hand January 1, 1882.. . . .		11,782 97

TABLE NO. 2—Continued.

SANITARY FUND.		
RESOURCES.		
Cash on hand January 1, 1881	\$ 47 25	
General taxes.....	18,043 04	
Cash deposits by Secretary	1,993 00	\$ 20,083 29
DISBURSEMENTS.		
Ordinary expenses....		16,044 44
Cash on hand January 1, 1882.....		4,038 85
SINKING FUND (FOR GENERAL BONDS).		
RESOURCES.		
Cash on hand January 1, 1881.....	5,507 36	
General taxes.....	111,866 89	
From cemetery fund.....	3,263 18	
Special tax paid by M. Barnett estate....	1,687 09	
Interest on deposits.....	491 13	122,815 65
DISBURSEMENTS.		
Payment of general bonds.....	106,000 00	
Part of special debt assumed by the city.....	895 38	106,895 38
Cash on hand January 1, 1882.....		15,920 27
Amount in hands of Sinking Fund Commissioners....	15,128 56	
Amount in hands of City Treasurer.....	791 71	15,920 27
VIADUCT SINKING FUND.		
RESOURCES.		
January 1, 1881 — Amount in hands of Sinking Fund Commissioners	359,798 98	
Amount in hands of City Treasurer.....	1,209 25	
General taxes.....	3,808 61	
Sale of Viaduct property.....	605 00	
Viaduct property rents.....	230 00	
Earning for the year (Sinking Fund Commissioners' report).....	23 656 58	389,108 42
January 1, 1882—Amount in hands of Sinking Fund Commissioners.....	389 080 67	
Amount in hands of City Treasurer	77 75	
Value of this fund January 1, 1882.....		389,108 42

TABLE NO. 2—Continued.

VIADUCT FUND.		
RESOURCES.		
Cash on hand January 1, 1881		\$ 1,022 26
DISBURSEMENTS.		
Incidental expenses.....		94 50
Cash on hand January 1, 1882.....		927 76
WATER WORKS FUND.		
RESOURCES.		
Cash on hand January 1, 1881.....	\$ 48,242 02	
Water rents, etc	240,157 42	
		288,390 44
DISBURSEMENTS.		
Ordinary expenses.....	67,324 25	
Permanent improvements.....	155,036 40	
		222,360 74
Cash on hand January 1, 1882.....		66,038 70

TABLE NO. 3.

STATEMENT OF THE CONDITION OF THE VARIOUS
FUNDS OF THE CITY OF CLEVELAND JAN. 1, 1882.

	Amount of Bonds Outstanding Jan. 1, 1882.	Amount of Certified Estimate Outstanding Jan. 1, 1882.
1 Atlantic street, grading and culverts		
2 Armory Fund		
3 Arlington street, opening.....		
4 Allen street, opening		
5 Burton street, grading and damages.....		
6 Bond street, grading and paving.....		
7 Bond street, opening.....	67,000 00	
8 Becker avenue, widening.....		
9 Bently alley, opening.....		
10 Broadway, paving, Ohio to Independence.....		
11 Broadway, paving, Independence to Union.....		
12 Broadway, paving, Union to Miles.....	60,800 00	
13 Broadway, paving, Miles to Woodland Hills		
14 Brownell street, paving.....		
15 Beckwith street, grading.....		
16 Beech street, sewer.....		
17 Bridge Fund.....		
18 Bank street, extension paving		
19 Bailey street, opening.....		
20 Broadway sewer district.....		
21 Bills receivable--see statement following		
22 Bank street, sewer, Superior to 340 feet north of Lake.....		
23 Bank street, paving, Superior to Lake street.....		
24 Cemetery Fund		
25 Central way branch sewer.....		
26 Custead avenue, opening.....		
27 Commercial street, sewer.....	2 000 00	
28 Cedar street, Perry to Willson		
Carried forward.....	129,800 00	

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881	Amounts due from Street R. R. Companies	Amounts Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
1,613 87		1,070 00	544 05		2,139 82		1
	610 39	1,738 66	1,456 00			327 73	2
409 46					409 46		3
3,735 48		2,875 00	1,517 38		4,893 10		4
444 72					444 72		5
	400 00					400 00	6
	7,037 33	47,171 99	47,955 02			7,820 36	7
138 81		1,640 48	549 89		1,229 40		8
226 51		233 25	450 76				9
6,973 94					6,973 94		10
20,393 50		92 56	36 75		20,449 31		11
9,859 99		62,276 39	32,605 43	12,041 82	39,530 95		12
104 96					104 96		13
	3,565 32	5,350 00	111 38		1,673 30		14
1,103 60			26 37		1,077 23		15
15		5 59	5 74				16
	326 11	34,667 33	36,960 31			2,619 09	17
	349 63		13 41			363 04	18
543 15		2,996 00	1,823 55		1,715 60		19
172 54			44 71		127 83		20
							21
			652 00			652 00	22
			5,882 24			5,882 24	23
	3,263 18	3,263 18					24
	266 94	266 94					25
	912 21	1,060 00	80 60		67 19		26
78 20		2,280 00	2,401 09			42 89	27
	660 36					660 36	28
45,798 88	17,391 47	166,787 37	133,125 68	12,041 82	80,836 81	18,767 71	

TABLE NO. 3 - Continued.

		Amount of Bonds Outstanding Jan. 1, 1892.	Amount of Certified Estimates Outstanding Jan. 1, 1892.
	<i>Brought forward</i>	129,800 00	
1	Chestnut ridge, street macadamizing.....	11,000 00	
2	Commercial street.....		
3	Case avenue, Euclid to Payne.....		
4	Central place, opening.....	64,500 00	
5	Cedar avenue, macadamizing—East Cleveland.....	9,000 00	
6	Cuyahoga river, dredging—above U. C. W. bridge....	42,000 00	
7	Cuyahoga river, dredging—below U. C. W. bridge....		
8	Canal fund.....	275,000 00	
9	Central way, bridge.....		
10	Central way, masonry.....	5,000 00	
11	Columbus street, paving, etc.....		
12	Columbus, Pearl and Walworth run bridge improvement:	50,400 00	
13	Clark avenue, grading, etc.....		
14	Case avenue, paving, Euclid to Garden.....		
15	Dunham avenue, sewer.....		
16	Detroit street, Kentucky to 200 feet west of Waverly....		
17	Delinquent sidewalks.....		
18	Detroit street, repaving, Waverly to city limits,....		
19	Detroit street, repaving, Pearl to Kentucky.....		
20	East Madison avenue, macadamizing.....		
21	Erie street, paving, etc.....		
22	Eagle street, paving, grading, etc.....		
23	Euclid avenue, macadamizing, Fairmount to city limits..	14,100 00	
24	Euclid avenue, widening.....		
25	Euclid avenue, repaving, Perry to Willson.....		
26	Euclid avenue, west of Erie street.....	24,000 00	
27	Euclid avenue, paving, Willson to Fairmount.....	28,000 00	
	<i>Carried forward</i>	652,800 00	

TABLE NO. 3--Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881	Amounts due from Street R. R. Companies.	Amounts Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
45,798 88	17,391 47	106,787 37	133,125 08	12,041 82	80,836 81	18,767 71	
595 50		6,445 00			7,040 50		1
	777 86	2,140 00	2,458 58			1,096 44	2
	1,098 08	5,750 00	4,977 15			325 23	3
	4,498 41	16,462 37	37,987 53			26,023 57	4
47 37		3,720 00	61 75		3,705 62		5
47 82		40,996 00	42,964 54			1,920 71	6
	90 32	38,430 57	43,182 27			4,842 02	7
	975 64					975 64	8
	114 01	4,280 00	4,142 40		23 59		9
	708 74	3,490 00	3,554 59			783 33	10
9,997 28		388 17	10,385 45				11
		19,408 00	19,408 00				12
	168 45	28 00	2,608 58			2,749 03	13
		14,203 98	18,781 44			4,577 46	14
	89 07	146 57	57 50				15
106 27		7,276 00	6,221 50		1,160 77		16
2,740 08		6,243 41	6,937 47		2,046 92		17
			3,199 45			3,199 45	18
			206 96			206 96	19
	675 18					675 18	20
	156 82	156 82					21
	233 41	3,210 00	2,725 79		250 80		22
777 14		5,466 13	6,544 63			301 31	23
126 91		2,140 00	2,186 20		80 71		24
438 97			438 97				25
174 73		5,630 00			5,804 73		26
986 56		11,235 48	196 53		12,025 51		27
61,838 42	26,977 46	364,023 87	352,352 96	12,041 82	112,975 96	66,444 09	

TABLE NO. 2--Continued.

	Amount of Bonds Outstanding Jan. 1, 1892.	Amount of Certified Estimates Outstanding Jan. 1, 1892.
<i>Brought forward</i>	652,800 00	
1 East Prospect street, opening.....		
2 Erie street damages.....		
3 Erie street, repaving, Lake street to Woodland avenue.....		
4 Fire Department.....		
5 Fairfield street.....		
6 Forest street, grading, damages, etc.....		
7 Fairmount street, macadamizing.....	3,600 00	
8 Funded debt, bond account.....	1,845,000 00	
9 General Fund—see statement following.....		
10 German street, grading..		
11 Giddings avenue, opening, etc.....		
12 Garden street, paving, etc.....		
13 Grand avenue, grading, etc.....	6,000 00	
14 Grand avenue, opening..		
15 Garden street, sewer.....		
16 Hough avenue.....		
17 Herman street, opening, grading and grading damages..	1,000 00	
18 House of Correction.....	184,000 00	
19 Hamilton street, grading, etc.....	800 00	
20 Haight street, opening.....		
21 Hodge street, (now Waverly).....		
22 Hemlock street, opening.....		
23 Hodge avenue, damages.....		
24 Hodge street, damages.....		
25 Herald street, grading, etc.....	19,000 00	
26 Herald street, damages.....		
27 Harvard street, grading, etc.....		
<i>Carried forward</i>	2,712,200 00	

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the year 1881.	Amount due from Streets & H. Companies.	Amount Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
61,838 42	26,977 46	364,023 87	332,352 96	12,041 82	112,975 96	66,444 09	
1,110 89		4,815 00			5,925 89		1
78 80			78 80				2
			141 65			141 65	3
	2,723 88	148,713 43	147,484 23			1,494 68	4
	450 00					450 00	5
	700 00	1,361 83	1,352 26			690 43	6
	671 73	1,293 02	25 67		595 62		7
							8
	35,409 50	127,933 77	118,718 86			26,194 59	9
14 27		3 47	17 74				10
1,494 81					1,494 81		11
	4,436 32					4,436 32	12
210 34		3,295 00	1,465 52		2,069 82		13
843 65		1,070 00	299 36		1,614 29		14
2,094 92			2,185 12			150 20	15
3,223 52					3,223 52		16
76 48		1,014 00	2,267 85			1,177 37	17
	7,300 81	79,052 10	76,402 80			4,651 51	18
36 18		790 00	766 86		59 32		19
121 60			121 60				20
319 18					319 18		21
	395 73					395 73	22
274 03					274 03		23
572 18					572 18		24
	622 16	950 00			327 84		25
	265 86	265 86					26
284 96		53 36	338 32				27
72,534 23	79,953 45	734,634 71	704,019 60	12,041 82	120,422 46	106,226 57	

TABLE NO. 3—Continued.

		Amount of Bonds Outstanding Jan. 1, 1898.	Amount of Certified Estimates Outstanding Jan. 1, 1898.
	<i>Brought forward.</i>	2,712,200 00	
1	Harvard street, grading damages		
2	Hodge avenue.....		
3	Iowa street, grading, etc.....		
4	Isabella street, grading, etc.....		
5	Infirmery Fund.....	36,000 00	
6	Interest Fund.....		
7	Jennings avenue, paving, etc.....		
8	Junction street, grading etc.....		
9	Kennard street, sewer.....		
10	Kinsman street, paving, culverts, etc.....	58,000 00	
11	Kinsman street, repaving.....		
12	Lincoln avenue, grading and culverts.....		
13	Lincoln avenue, opening		
14	Lake street, paving		
15	Lorain street, paving, Waverly to Chestnut Ridge		
16	Lighting Funds.....		
17	Lorain street, damages by grading.....		
18	Market Fund.....		
19	Mulberry street		
20	March street, opening.....		
21	Miles street, grading		
22	Miles street, damages.....		
23	Marquette street, opening.....	6,000 00	
24	McMahon, John E.....		
25	Monument Square, repaving		
26	North Woodland avenue, damages.....		
27	Ontario street, paving		
	<i>Carried forward.</i>	2,812,200 00	

TABLE NO. 8—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881.	Amount due from Street R. R. Companies.	Amount Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
72,534 23	79,853 45	734,634 71	704,019 60	12,041 82	120,422 46	106,226 57	
69 64		15 94	85 58				1
	621 65					621 65	2
	149 60	380 61	283 28			52 27	3
	151 63	527 40	471 67			95 90	4
	18,813 10	30,853 41	23,330 00			2,290 56	5
	21,560 90	396,695 83	382,512 61			8,407 68	6
2,497 24		2,438 00	2 36	186 29	4,932 88		7
	5,227 83					5,227 83	8
77 67			77 67				9
	5,070 99	63,806 57	59,884 50			1,688 92	10
4,000 00		1,070 00	5,070 00				11
	728 20	2,754 18	1,678 73		347 25		12
1,345 79			1,345 79				13
975 06			306 54		668 49		14
	1,808 96	2,477 13	663 25			20 07	15
	4,538 79	91,781 96	93,826 17			6,578 01	16
			118 61			118 61	17
	1,265 27	28,631 04	32,960 89			6,614 56	18
1,223 35					1,223 35		19
3,737 38			48 28		3,689 00		20
20 64		101 04	121 68				21
439 58			101 04		338 54		22
	29 29	4,580 00	4,502 95		47 76		23
	4,977 48					4,977 48	24
			993 58			993 58	25
	642 15					642 15	26
	300 00					300 00	27
87,524 15	146,429 28	1,368,777 81	1,314,055 22	12,228 11	140,669 73	144,855 87	

TABLE NO. 3.—Continued.

		Amount of Bonds Outstanding Jan. 1, 1882.	Amount of Certified Estimates Outstanding Jan. 1, 1882.
	<i>Brought forward.</i>	2,812,200 00	
1	Old River street.....		
2	Orange street, opening and extending.....		
3	Police Court Fund.....		
4	Police Department.....		
5	Pearl street, damages		
6	Pearl street, paving.....		
7	Perry street, paving.....	1,800 00	
8	Park Fund.....	318,250 00	
9	Payne avenue, opening.....	271,600 00	
10	Prospect street, repaving, Erie to Perry	5,100 00	
11	Prospect street, paving, Perry to Willson.....		
12	Pearl street, paving, Detroit to Willow.....		
13	Quincy street, grading, etc.....		
14	Quincy street, damages.....		
15	Russell avenue, grading and extending.....	3,000 00	
16	Sanitary fund.....		
17	Sinking Funds (for general bonds).....		
18	Street intersections.....		
19	Street Department		
20	Steel & McMahon.....		
21	Special Road Fund.....		2,283 34
22	Seneca street, opening, grading and grading damages	23,000 00	
23	Seneca street, paving.....		
24	Superior street, widening.....	4,000 00	
25	St. Clair street, paving, etc.....	11,500 00	
26	St. Clair street, widening.....	8,000 00	
27	Summit street, opening.....	22,300 00	
	<i>Carried forward.</i>	3,480,750 00	2,283 34

TABLE No. 3.—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881.	Amount due from Street R. R. Companies.	Amount Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
87,524 15	146,429 28	1,368,777 81	1,314,055 22	12,228 11	140,669 73	144,855 87	
.....	.....	.....	1,080 02	.....	.....	1,080 02	1
.....	133 43	7,330 76	2,100 11	.....	5,106 22	.....	2
.....	1,795 08	10,918 34	18,120 70	.....	.....	8,997 44	3
.....	5,793 49	133,440 40	129,020 72	.....	.....	1,382 81	4
.....	45 05	45 05	.....	.....	.....	.....	5
4,352 35	.....	.....	45 05	484 06	4,307 30	.....	6
.....	1,702 38	1,945 00	2,068 36	.....	.....	1,825 74	7
.....	2,481 33	8,947 09	7,217 21	.....	.....	751 45	8
.....	98,020 88	66,869 04	114,313 24	.....	.....	145,435 08	9
.....	2,494 48	5,814 00	5,930 11	.....	.....	2,610 59	10
.....	2,285 32	.....	.....	.....	.....	2,285 32	11
.....	.....	.....	7,753 68	.....	.....	7,753 68	12
162 50	.....	.....	162 50	.....	.....	.....	13
.....	98 91	98 91	.....	.....	.....	.....	14
551 28	.....	169 98	807 23	.....	.....	85 97	15
.....	47 25	16,044 44	20,096 04	.....	.....	4,038 85	16
.....	5,507 36	106,895 38	117,308 29	.....	.....	15,920 27	17
.....	22,509 66	27,963 85	11,548 03	.....	.....	6,103 84	18
.....	6,805 18	73,411 38	78,389 17	.....	.....	11,782 97	19
.....	2,373 20	.....	.....	.....	.....	2,373 20	20
.....	2,618 38	7 62	.....	.....	.....	2,610 76	21
.....	11,559 54	10,000 00	5,485 55	.....	.....	7,045 09	22
.....	2,400 02	4,280 00	495 12	.....	1,384 86	.....	23
2,313 71	.....	951 10	.....	.....	3,264 81	.....	24
581 20	.....	6,609 00	9,683 04	144 87	.....	2,492 84	25
473 32	.....	6,308 62	1,405 01	.....	5,376 93	.....	26
524 96	.....	5,781 00	3,135 51	.....	3,170 45	.....	27
96,479 87	315,100 22	1,862,637 77	1,850,118 91	12,857 94	163,280 30	369,381 79	

TABLE NO. 3—Continued.

		Amount of Bonds Outstanding Jan. 1, 1882.	Amount of Certified Estimates Outstanding Jan. 1, 1882.
	<i>Brought forward</i>	3,480,750 00	2,283 34
1	Seyler alley, opening.....		
2	School Bond account	250,000 00	
3	St. Paul street, grading and damages.....	900 00	
4	Slater street, opening	4,700 00	
5	Stone's Levee, paving.....		
6	Sewer Districts 1 and 2, East Cleveland.....	19,500 00	
7	Sewer District No. 3, East Cleveland.....		
8	Superior street sewer, east of Doan brook.....	1,800 00	
9	Superior street sewer, west of Doan brook.....		
10	Sewer District No. 1.....	22,300 00	
11	Sewer District No. 2.....	30,200 00	
12	Sewer District No. 3.....	7,700 00	
13	Sewer District No. 4.....	800 00	
14	Sewer District No. 5.....	26,700 00	
15	Sewer District No. 6.....		
16	Sewer District No. 7.....	210,300 00	
17	Sewer District No. 8.....		
18	Sewer District No. 9.....		
19	Sewer District No. 10.....		
20	Sewer District No. 11.....		
21	Sewer District No. 12.....	21,600 00	
22	St. Clair street, sewer.....	14,600 00	
23	Scovill avenue, grading and curbing		
24	Seneca street, repaving, Superior to St. Clair.....		
25	Superior street, repaving, Park to Erie street.....		
26	Superior street, grading, Perry to Willson.....		
27	Tod street, improvement.....		
	<i>Carried forward</i>	4,001,850 00	2,283 34

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881.	Amount due from Street R. R. Companies.	Amount Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
96,479 87	315,100 32	1,862,637 77	1,850,118 91	12,857 94	163,290 30	369,381 79	
.....	633 79	.....	.....	.....	.....	633 79	1
.....	.....	.....	.....	.....	.....	.....	2
25 71	.....	902 00	932 79	.....	.....	5 08	3
.....	3,884 87	2,888 00	206 82	.....	.....	1,448 49	4
.....	108 84	108 84	.....	.....	.....	.....	5
.....	2,106 65	9,588 18	9,706 28	.....	.....	2,223 75	6
.....	206 22	.....	.....	.....	.....	206 22	7
623 33	.....	2,551 64	1,159 01	.....	2,020 96	.....	8
.....	.....	841 20	.....	.....	841 20	.....	9
.....	20 63	8,902 57	7,161 71	.....	1,720 23	.....	10
1,040 76	.....	7,999 00	9,596 07	.....	.....	556 31	11
.....	1,204 80	5,450 75	3,863 75	.....	382 20	.....	12
.....	2,439 19	872 00	.....	.....	.....	1,567 19	13
.....	904 02	9,896 68	10,060 00	.....	.....	1,068 43	14
.....	768 05	.....	.....	.....	.....	768 05	15
.....	940 67	29,325 35	27,861 06	.....	523 63	.....	16
.....	677 03	6 43	.....	.....	.....	671 20	17
.....	81 99	81 99	.....	.....	.....	.....	18
.....	103 06	200 00	305 46	.....	.....	206 52	19
.....	75 89	200 00	275 11	.....	.....	151 00	20
.....	207 19	8,467 00	8,144 20	.....	115 61	.....	21
856 11	.....	4,002 00	41 62	.....	4,906 49	.....	22
.....	117 66	117 66	.....	.....	.....	.....	23
.....	.....	.....	1,199 47	.....	.....	1,199 47	24
.....	.....	.....	1,179 14	.....	.....	1,179 14	25
.....	.....	.....	770 93	.....	.....	770 93	26
.....	646 48	.....	57 03	.....	.....	703 51	27
99,080 78	330,202 65	1,954,921 06	1,932,719 44	12,857 94	173,790 62	382,761 87	

TABLE NO. 3--Continued.

	Amount of Bonds Outstanding Jan. 1, 1892.	Amount of Certified Estimates Outstanding Jan. 1, 1892.
<i>Brought forward</i>	4,091,850 00	2,283 34
1 University street, opening.....		
2 Viaduct Sinking Fund, cash.....		
3 Viaduct Sinking Fund, Valley Railway bonds.....		
4 Viaduct Fund.....	2,138,000 00	
5 Vega avenue, grading and cinderling.....		
6 Woodland avenue, repaving, Ohio to Perry.....		
7 Weddell street.....		
8 West River street.....		
9 Wade Park avenue, grading, etc.....		
10 Wade Park avenue, opening.....		
11 Warner road, grading, masonry and bridge.....	3,100 00	
12 Water Works Fund.....	800,000 00	
13 Willson avenue, damages, Julia to Sawtell.....		
14 Willson avenue, opening, North of St. Clair.....	12,000 00	
15 Willson avenue, damages, Sawtell to Broadway.....	6,000 00	
16 Willson avenue, grading, Julia to Maurice.....	6,500 00	
17 Willson avenue, grading Euclid to Woodland.....		
18 Willson avenue, grading, Euclid to Lake Erie.....	4,000 00	
19 Willson avenue, grading, Maurice to Sawtell.....		
20 Woodland Hills avenue, grading.....		
21 Woodland Hills avenue, damages.....		
22 Woodland avenue, macadamized, Willson to E. Madison.....	3,000 00	
23 Woodland avenue, East Madison to Woodland Hills.....		
24 <i>Total Bonded Debt</i>	7,064,450 00	
25 Pelton Park Fund--no bonds issued.....	16,666 68	
26 <i>Total amount of overdrawn accounts</i>		
<i>Carried forward</i>	7,081,116 68	2,283 34

TABLE NO. 2—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881	Amounts due from Street R. R. Companies.	Amounts Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
99,030 78	330,208 65	1,954,921 06	1,932,719 44	12,857 94	173,790 62	382,761 87	
.....	258 18	.....	.....	.....	.....	258 18	1
.....	96,008 28	.....	28,100 19	.....	.....	.....	2
.....	265,000 00	.....	.....	.....	.....	389,108 42	3
.....	1,022 26	94 50	.....	.....	.....	927 76	4
.....	144 40	26 84	289 28	.....	.....	407 34	5
.....	.....	.....	8,589 86	.....	.....	8,589 86	6
.....	781 96	.....	.....	.....	.....	781 96	7
1,786 00	.....	.....	36 03	.....	1,750 57	.....	8
6,961 92	.....	.....	.....	.....	6,961 92	.....	9
6,084 77	.....	9,318 47	2,487 87	.....	12,865 37	.....	10
82 50	.....	1,461 00	1,722 64	.....	.....	179 14	11
.....	48,242 02	222,380 74	240,157 42	.....	.....	66,068 70	12
.....	2,011 68	.....	.....	.....	.....	2,011 68	13
475 43	.....	6,122 43	4,755 93	.....	1,841 92	.....	14
.....	869 69	11,670 57	4,639 83	.....	6,162 05	.....	15
.....	2,555 86	5,783 03	12,252 33	.....	.....	9,025 61	16
.....	664 09	.....	6 25	.....	.....	670 34	17
852 88	.....	11,530 48	8 36	.....	12,375 00	.....	18
472 39	.....	3,706 82	1,401 12	.....	2,778 09	.....	19
.....	40 56	6,172 00	6,436 25	.....	.....	324 81	20
247 56	.....	4,155 92	4,835 88	.....	.....	432 39	21
107 30	.....	9,690 00	4,323 75	.....	5,473 55	.....	22
.....	5,575 52	11,909 07	10,287 18	.....	.....	3,958 63	23
.....	.....	.....	.....	.....	.....	.....	24
.....	1,092 43	16,666 66	18,043 04	.....	.....	2,468 81	25
.....	.....	.....	.....	.....	224,019 09	.....	26
116,072 12	754,419 51	2,275,589 10	2,281,112 65	12,857 48	224,019 09	867,890 03	

TABLE NO. 3—Continued.

		Amount of Bonds Outstanding Jan. 1, 1882.	Amount of Certified Estimates Outstanding Jan. 1, 1882.
	<i>Brought forward</i>	7,081,116 68	2,283 34
1	<i>Total amount of overdrawn accounts brought forward</i>		
2	Sinking Fund Commissioners. Balance of funds in their hands }		
3	General Sinking Fund..... }		
4	Viaduct Sinking Fund..... }		
	S. T. Everett, Treasurer—		
5	Cash on hand to the credit of the Water Works Fund }		
6	Cash on hand to the credit of all other funds..... }		
7	Bonds held as guarantee against decay of pavements.....		
	<i>Totals</i>	7,081,116 68	2,283 34

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1881.	Balance Credit Jan. 1, 1881.	Disburse- ments for the Year 1881.	Receipts for the Year 1881	Amounts due from Street R. R. Companies.	Amounts Overdrawn Jan. 1, 1882.	Cash on hand Jan. 1, 1882.	
116,072 12	754,419 51	2,275,589 10	2,281,112 65	12,857 48	.....	867,890 08	
.....	224,019 09	.....	1
.....	2
.....	15,128 56	.....	3
.....	389,030 67	.....	4
.....	5
.....	66,088 70	.....	6
.....	166,322 33	.....	7
.....	7,350 68	.....
116,072 12	754,419 51	2,275,589 10	2,281,112 65	12,857 48	867,890 08	867,890 08	

Bills Receivable, Dr. General Fund, Cr.

Notes given in settlement of rents due the City	\$ 135 00
Notes given by the Perun Bohemian School and Literary Society	5,340 00
Notes given by the L. S. & M. S. R'y Co. for Willson avenue grading assessment.....	950 63
Total.....	6,425 63

RECAPITULATION No. 1. TABLE No. 3.

Total credit balances January 1, 1881.....	\$ 754,419 51	
Total receipts for the year 1881.....	2,281,112 65	
		\$3,035,532 16
Total debit balances January 1, 1881.....	116,072 12	
Total disbursements for the year 1881.....	2,275,589 10	
		2,391,661 22
Cash on hand January 1, 1882.....		643,870 94

RECAPITULATION No. 1. TABLE No. 3—Continued.

Cash in hands of Sinking Fund Commissioners—	
General Sinking Fund.....	\$ 15,128 56
Viaduct and Canal Sinking Fund	399,080 67
Cash in hands of City Treasurer—	
Water Works Fund.....	66,088 70
All other funds.....	166,322 33
Bonds held as guarantee against decay of pavements.. ..	7 350 68
Total cash on hand January 1, 1882.....	643,870 94

RECAPITULATION NO. 2. TABLE NO. 3.
SHOWING THE AMOUNT OF GENERAL AND SPECIAL INDEBTEDNESS
OF THE CITY OF CLEVELAND JANUARY 1, 1882.

Amount of general bonded debt.....		\$5,888,850 00
Amount of special bonded debt ..		
Street improvements.....	\$274,000 00	
Sewers.....	857,500 00	
Street damages.....	544,700 00	
		1,176,200 00
Total bonded indebtedness.....		7,064,450 00
Notes for Pelton Park—unpaid..		16,666 68
Note for dredging loan—unpaid.....		18,000 00
Certified estimates—unpaid.....		2,233 34
Overdrafts in special accounts.....		242,019 09
Total general and special indebtedness Jan. 1, 1882....		7,343,419 11

TABLE NO. 4.

STATEMENT SHOWING AMOUNT AND MATURITY
OF ALL BONDS ISSUED BY THE CITY OF CLEVELAND
DURING THE YEAR 1881.

Funded debt bonds to the amount of \$87,000.00 were issued September 1, 1881, maturing in seven years (Sept. 1, 1888) and bearing 4 per cent. semi-annual interest. These bonds were sold at par, and from the proceeds, \$87,000 00, together with a payment of \$865.38 from the General Sinking Fund, credits were given to the following special accounts, for special debt assumed by the city:	
Kinsman street, paving, etc.....	43,770 00
Willson avenue, opening, north of St. Clair.....	2,308 07
Willson avenue, opening, Sawtell to Broadway.....	2,481 31
Willson avenue, grading, Julia to Maurice.....	10,380 00
Sewer districts 1 and 2, East Cleveland.....	9,544 00
Columbus, Pearl and Walworth Run bridge improvement	19,408 00
Total.....	87,865 38

TABLE NO. 5.

STATEMENT SHOWING AMOUNT OF GENERAL BONDS OF THE CITY OF CLEVELAND, OHIO, OUTSTANDING DECEMBER 31, 1881, AND MATURING AS FOLLOWS:

	CLASS OF BONDS.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Month when Principal and Interest are due,
1	Water Works.....	7	May 1, 1872.....	\$400,000	May and Nov...
2	" ".....	7	May 7, 1873.....	200,000	May and Nov...
3	" ".....	6	1875 and 1876.....	200,000	Sept. and March
4	Funded Debt (Registered)...	7	Sept. 1, 1869.....	200,000	Sept. and March
5	" ".....	7	Feb. 1, 1872.....	200,000	Aug. and Feb...
6	" ".....	7	Sept. 1, 1872.....	230,000	Sept. and March
7	" ".....	7	Aug. 1, 1873.....	200,000	Aug. and Feb...
8	" ".....	7	April 1, 1874.....	200,000	April and Oct...
9	" ".....	7	May 1, 1874.....	200,000	May and Nov...
10	" ".....	7	Dec. 1, 1874.....	67,000	Dec. and June...
11	" ".....	6	Dec. 1, 1878.....	178,000	Dec. and June...
12	" ".....	6	Sept. 1, 1869.....	25,000	Sept. and March
13	" ".....	5	Aug. & Nov. 1880.....	308,000	Sept. and March
14	" ".....	4	Sept. 1, 1881.....	87,000	Sept. and March
15	Infirmary.....	6	Nov. 1, 1876.....	60,000	Nov. and May...
16	Cuyahoga River Dredging, above U. C. W. Bridge.....	6	1876-77-78.....	106,000	September.....
17	Monumental Park.....	7	Oct. 1, 1872.....	30,000	Oct. and April...
18	Lake View Park.....	7	Dec. 1, 1872.....	235,000	Dec. and June...
19	" " ".....	7	Nov. 1, 1874.....	50,000	Nov. and May...
20	" " ".....	5	Oct. 1, 1880.....	3,250	Dec. and June...
21	Canal.....	7	Jan. 1, 1874.....	150,000	Jan. and July...
22	" ".....	7	1875-76.....	114,000	Sept. and March
23	" ".....	6	1878-79.....	11,000	Nov. and May...
24	Viaduct.....	7	April 17, 1873.....	81,000	Feb. and Aug...
25	" ".....	7	Dec. 1, 1873.....	67,000	Dec. and June...
26	" ".....	7	May 1, 1874.....	65,000	May and Nov...
27	" ".....	7	Nov. 3, 1874.....	5,000	Oct. and April...
28	" ".....	7	1874-75.....	200,000	Oct. and April...
29	" ".....	6	1875-76.....	300,000	Oct. and April...
30	" ".....	6	Aug. 1876, Feb. 77.....	500,000	Aug. and Feb...
31	" ".....	5	June 1, 1877.....	125,000	June and Dec...
32	" ".....	6	June 1, 1877.....	125,000	June and Dec...
33	" ".....	6	Nov. 1, 1877.....	100,000	Nov. and May...
34	" ".....	6	March 11, 1878.....	100,000	March and Sept.
35	" ".....	6	June 1, 1878.....	200,000	June and Dec...
36	" ".....	6	June 1, 1878.....	100,000	June and Dec...
37	" ".....	6	Nov. 1, 1878.....	170,000	Nov. and May...
38	House of Correction.....	7	Oct. 1, 1868.....	200,000	Oct. and April...
39	School, "C".....	6	Aug. 1, 1868.....	200,000	Aug. and Feb...
40	" " "D".....	7	Dec. 1, 1869.....	65,000	Dec. and June...
41	" " "E".....	7	May 1, 1870.....	50,000	May and Nov...
42	" " "F".....	7	Oct. 3, 1871.....	35,000	Oct. and April...
	Total.....				



TABLE NO. 5—Continued,

GENERAL BONDS MATURING FROM 1882 TO 1891 INCLUSIVE. (Concluded on next two pages.)										Total on bonds of all classes maturing prior Jan. 1, 1892. Carried forward	
1882	1883	1884	1885	1886	1887	1888	1889	1890	1891		
											1
											2
											3
	\$51,000		\$96,000							\$150,000	4
									\$200,000	200,000	5
											6
											7
											8
							\$200,000			200,000	9
							67,000			67,000	10
								\$178,000		178,000	11
						\$25,000				25,000	12
				\$32,000						32,000	13
						87,000				87,000	14
\$ 6,000	6,000	6,000	6,000	6,000	\$6,000					36,000	15
											16
22,000	20,000									42,000	16
											17
					235,000					235,000	18
							50,000			50,000	19
3,250										3,250	20
											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
											31
											32
											33
											34
											35
											36
											37
	84,000	100,000								184,000	38
100,000										100,000	39
				65,000						65,000	40
					50,000					50,000	41
						35,000				35,000	42
131,250	161,000	106,000	105,000	103,000	201,000	147,000	317,000	178,000	200,000	1,739,250	

TABLE NO. 5 -Continued.

	CLASS OF BONDS.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Month when Principal and Interest are due,
1	Water Works.....	7	May 1, 1872.....	\$400,000	May and Nov...
2	" ".....	7	May 7, 1873.....	200,000	May and Nov...
3	" ".....	6	1875 and 1876.....	200,000	Sept. and March
4	Funded Debt (Registered)...	7	Sept. 1, 1869.....	200,000	Sept. and March
5	" ".....	7	Feb. 1, 1872.....	200,000	Aug. and Feb...
6	" ".....	7	Sept. 1, 1872.....	230,000	Sept. and March
7	" ".....	7	Aug. 1, 1873.....	200,000	Aug. and Feb...
8	" ".....	7	April 1, 1874.....	200,000	April and Oct...
9	" ".....	7	May 1, 1874.....	200,000	May and Nov...
10	" ".....	7	Dec. 1, 1874.....	67,000	Dec. and June...
11	" ".....	6	Dec. 1, 1878.....	178,000	Dec. and June...
12	" ".....	6	Sept. 1, 1889.....	25,000	Sept. and March
13	" ".....	5	Aug. & Nov. 1880.....	308,000	Sept. and March
14	" ".....	4	Sept. 1, 1881.....	87,000	Sept. and March
15	Infirmary.....	6	Nov. 1, 1876.....	60,000	Nov. and May...
16	Cuyahoga River Dredging, above U. C. W. Bridge...	6	1876-77-78.....	106,000	September.....
17	Monumental Park.....	7	Oct. 1, 1872.....	30,600	Oct. and April...
18	Lake View Park.....	7	Dec. 1, 1872.....	235,000	Dec. and June...
19	" ".....	7	Nov. 1, 1874.....	50,000	Nov. and May...
20	" ".....	5	Oct. 1, 1880.....	3,250	Dec. and June...
21	Canal.....	7	Jan. 1, 1874.....	150,000	Jan. and July...
22	".....	7	1875-76.....	114,000	Sept. and March
23	".....	6	1878-79.....	11,000	Nov. and May...
24	Viaduct.....	7	April 17, 1873.....	81,000	Feb. and Aug...
25	".....	7	Dec. 1, 1873.....	67,000	Dec. and June...
26	".....	7	May 1, 1874.....	65,000	May and Nov...
27	".....	7	Nov. 3, 1874.....	5,000	Oct. and April...
28	".....	7	1874-75.....	200,000	Oct. and April...
29	".....	6	1875-76.....	300,000	Oct. and April...
30	".....	6	Aug 1876, Feb. '77	500,000	Aug. and Feb...
31	".....	5	June 1, 1877.....	125,000	June and Dec...
32	".....	6	June 1, 1877.....	125,000	June and Dec...
33	".....	6	Nov. 1, 1877.....	100,000	Nov. and May...
34	".....	6	March 11, 1878.....	100,000	March and Sept.
35	".....	6	June 1, 1878.....	200,000	June and Dec...
36	".....	6	June 1, 1878.....	100,000	June and Dec...
37	".....	6	Nov. 1, 1878.....	170,000	Nov. and May...
38	House of Correction.....	7	Oct. 1, 1868.....	200,000	Oct. and April...
39	School, "C".....	6	Aug. 1, 1868.....	200,000	Aug. and Feb...
40	" " "D".....	7	Dec. 1, 1869.....	65,000	Dec. and June...
41	" " "E".....	7	May 1, 1870.....	50,000	May and Nov...
42	" " "F".....	7	Oct. 3, 1871.....	35,000	Oct. and April...
	Total.....				

101

GENERAL BONDS MATURING FROM 1882 TO 1907 INCLUSIVE.									Total gen. bonds of all classes ma- turing from 1882 to 1891 inclusive. <i>Brought forward</i>	Total general bonds outstand- ing Jan. 1, 1882.
1882	1883	1884	1885	1886	1887	1888	1897			
\$400,000	\$200,000		\$200,000					\$400,000	\$ 800,000	1
								200,000		2
								200,000		3
\$ 150,000								150,000		4
200,000								200,000		5
	230,000							200,000		6
		200,000						230,000		7
		\$200,000						200,000		8
200,000								200,000		9
67,000								67,000		10
178,000								178,000		11
25,000								25,000		12
32,000				\$276,000				308,000		13
87,000								87,000		14
36,000								36,000	1,845,000	15
									34,000	16
42,000								42,000	42,000	17
	30,000							30,000		18
235,000								235,000		19
50,000								50,000		20
3,250								3,250	318,250	21
		150,000		88,000	26,000			150,000		22
						11,000		114,000		23
								11,000	275,000	24
	81,000							81,000		25
	67,000							67,000		26
		65,000						65,000		27
		5,000						5,000		28
		200,000		300,000	500,000			200,000		29
								300,000		30
								500,000		31
							\$125,000	125,000		32
							100,000	100,000		33
						100,000		100,000		34
						100,000		200,000		35
						100,000		100,000		36
						170,000		170,000		37
184,000								184,000	2,138,000	38
									184,000	39
100,000								100,000		40
65,000								65,000		41
50,000								50,000		42
35,000								35,000	250,000	
1,739,250	660,000	548,000	620,000	588,000	802,000	225,000	581,000	125,000	5,888,250	

Amount of General Bonds outstanding December 31, 1880	\$6,328 250
Amount of General Bonds outstanding December 31, 1881	5,888 250
Decrease during the year 1881	438 000

TABLE NO. 6.

AMOUNT AND MATURITY OF STREET IMPROVEMENT BONDS OUTSTANDING DECEMBER 31, 1881.

	NAMES OF STREETS.	Rate per cent.
1	Broadway, paving, Union to Miles.....	7
2	" " " "	6
3	Chestnut Ridge street, macadamizing, etc.	6
4	" " " " "	5
5	Central Way, masonry	6
6	Cedar avenue macadamizing Willson to Fairmount.....	6
7	Euclid avenue, paving west of Erie street.....	7
8	" " " " " "	6
9	" " " " " "	5
10	Euclid avenue, macadamizing, Fairmount to City limits....	7
11	" " " " " "	6
12	Euclid avenue, paving, Willson to Fairmount.....	6
13	Fairmount Street, grading and paving	6
14	Grand avenue, grading etc.....	5
15	Herald street, grading, culverts, etc.....	5
16	Hamilton street, grading, etc.....	6
17	Kinsman street, paving, etc., Willson to City limits.....	6
18	Perry street, Woodland to Broadway.....	7
19	Prospect street, repaving, Erie to Perry	7
20	St. Clair Street, paving, etc., Erie to Water.....	7
21	" " " " "	6
22	" " " " "	5
23	St. Paul street, grading and damages	6
24	Willson avenue, grading, Lake Erie to Euclid avenue.....	5
25	Willson avenue, culverts, etc., Julia to Maurice.....	6
26	Woodland avenue, macadamizing, Willson to East Madison	5
27	Warner Road, masonry, Bridge, etc.....	7
28	" " " "	5
	<i>Total</i>	

TABLE NO. 6—Continued.

September 1882.	September 1883.	September 1884.	September 1885.	September 1886.	Total.	
\$ 19,000					\$ 19,000	1
39,800					39,800	2
4,000					4,000	3
	\$ 7,000				7,000	4
3,000	2,000				5,000	5
3,000	3,000	\$ 3,000			9,000	6
		5,000			5,000	7
4,000	5,000				9,000	8
			\$ 10,000		10,000	9
3,000	5,100	3,000			11,100	10
1,000		2,000			3,000	11
9,000	9,000	10,000			28,000	12
1,000	1,300	1,300			3,600	13
6,000					6,000	14
3,000	4,000	4,000	4,000	4,000	19,000	15
800					800	16
38,000	20,000				58,000	17
1,800					1,800	18
5,100					5,100	19
2,000					2,000	20
3,500					3,500	21
	6,000				6,000	22
900					900	23
4,000					4,000	24
6,500					6,500	25
3,000					3,000	26
1,100					1,000	27
2,000					2,000	28
\$ 164,500	\$ 62,400	\$ 28,300	\$ 14,000	\$ 4,000	\$ 273,200	
Amount of street improvement bonds outstanding Dec. 31, 1880.....					\$462,500	
1881.....					273,200	
Decrease during the year 1881.....					\$189,300	

TABLE No. 7.
 AMOUNT AND MATURITY OF STREET DAMAGE
 BONDS OUTSTANDING DECEMBER 31, 1881.

	NAMES OF STREETS.	Month when Due	Rate per Cent.	1882	1883
1	Bond street, opening.....	September	7	\$32,000	\$35,000
2	Broadway, damages, Union to Wiles....	"	7	2,000	.....
3	Central place, opening.....	"	7	8,000	13,000
4	Central place, opening.....	"	6	.....	.....
5	Columbus, Pearl and Walworth Run bridge improvements.....	"	7	.....	.....
6	Columbus, Pearl and Walworth Run bridge improvements.....	"	6	17,000	.....
7	Herman street, opening.....	"	6	1,000	.....
8	Marquette street, opening.....	"	6	4,000	.....
9	Marquette street, opening.....	"	5	.....	2,000
10	Payne avenue, opening.....	"	7	90,000	.....
11	Payne avenue, opening.....	"	6	.....	92,000
12	Russell avenue, opening.....	"	5	3,000	.....
13	Slater avenue, opening.....	"	7	2,300	2,400
14	Summit street, opening.....	"	7	4,000	3,000
15	Summit street, opening.....	"	5	.....	.....
16	Seneca street, opening.....	"	7	3,000	3,000
17	Seneca street, opening.....	"	6	5,000	6,000
18	St. Clair street, widening.....	"	5	8,000	.....
19	Willson avenue, opening, north of St. Clair	"	6	4,000	4,000
20	Willson avenue, opening, north of St. Clair	"	5	.....	.....
21	Willson avenue, opening, Sawtell to Broadway.....	"	6	6,000	.....
22	Superior street, widening.....	"	5	4,000	.....
	Total.....			193,300	160,400

TABLE NO. 8.
AMOUNT AND MATURITY OF SEWER BONDS OUT-
STANDING DECEMBER 31, 1881.

		Rate per Ct.	When Issued.	Month when Due.	1882	1883	1884
1	Sewer District No. 1.	7	1874-5	Sep & Mch	\$ 8,000	\$5,000	\$ 5,000
2	Sewer District No. 2	7	1874-5	"	8,000	5,000	5,000
3	Sewer District No. 2.....	7	1874	"	.....	.....	.....
4	Sewer District No. 3.....	7	1875	September	.....	3,600	3,600
5	Sewer District No. 3.....	6	1862	Apr & Oct.	700	.....	.....
6	Sewer District No. 3.....	6	1873-4	Aug & Feb	5,000	.....	.....
7	Sewer District No. 3.....	7	1873-4	Sep & Mch	.....	.....	2,000
8	Sewer District No. 4	6	1862	Jun & Dec	800	.....	.....
9	Sewer District No. 5.....	7	1875	Sep & Mch	8,000	1,300	.....
10	Sewer District No. 5.....	7	1874	"	.....	.....	.....
11	Sewer District No. 5.....	7	1874	"	.....	.....	3,000
12	Sewer District No. 5.....	7	1875	"	.....	.....	.....
13	Sewer District No. 7.....	7	1874-5	"	26,000	16,000	16,000
14	Sewer District No. 7.....	7	1872	"	.....	.....	.....
15	Sewer District No. 7.....	7	1875-6	September	.....	.....	.....
16	Sewer District No. 12....	7	1874	Sep & Mch	6,000	7,000	8,000
17	Commercial street sewer....	7	1875-6	September	2,000	.....	.....
18	Superior street sewer, east of Doan Brook.....	7	1876-7	"	800	.....	.....
19	Superior street sewer, east of Doan Brook.....	5	1880	"	.....	1,000	.....
20	St. Clair street sewer, east of Giddings Brook	7	1876-8	"	3,000	4,600	.....
21	St. Clair street sewer, east of Giddings Brook.....	5	1880	"	.....	.....	7,000
22	Sewer Districts 1 and 2, East Cleveland.....	6	1877-9	"	6,000	7,000	6,500
Totals.....					\$68,300	50,500	\$54,100

TABLE NO. 8—Continued.

[illegible]

TABLE NO. 9.
 RECAPITULATION OF THE BONDED INDEBTEDNESS
 OF THE CITY OF CLEVELAND, DECEMBER 31, 1881,
 AND MATURING AS FOLLOWS.

CLASS OF BONDS.		1882 and 1883.	
		1882.	1883.
1	Water Works		
2	Funded Debt.....		\$ 51,000
3	Infirmary	\$ 6,000	6,000
4	Dredging Cuyahoga River.....	22,000	20,000
5	Lake View and Monumental Park....	3,250	
6	Canal		
7	Viaduct		
8	House of Correction,		84,000
9	School	100,000	
	<i>Total General Bonds</i>	\$131,250	\$161,000
10	Street Improvements	164,500	62,400
11	Street Damages	193,300	160,400
12	Sewers	68,300	50,500
	<i>Total General and Special Bonded Debt</i>	\$557,350	\$434,300

TABLE NO. 9—Continued.

1884 to 1891—Inclusive. (Concluded on next two pages.)								Total from 1884 to 1891. Inclusive, Carried forw'd.	
1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.		
									1
	\$ 99,000	\$ 32,000		\$112,000	\$267,000	\$178,000	\$200,000	\$ 939,000	2
\$ 6,000	6,000	6,000	6,000					36,000	3
								42,000	4
			235,000		50,000			288,250	5
									6
									7
100,000								184,000	8
		65,000	50,000	35,000				250,000	9
\$ 106,000	\$105,000	\$103,000	\$291,000	\$147,000	\$317,000	\$178,000	\$200,000	\$1,739,250	
28,300	14,000	4,000					\$200,000	\$273,200	10
132,800	32,900	19,300	2,000	2,000	3,000			545,500	11
56,100	44,900	21,800	22,800	30,800	29,600	22,000		357,500	12
\$ 323,000	\$196,800	\$148,100	\$315,800	\$179,800	\$349,600	\$200,000	\$200,000	\$2,915,450	

TABLE NO. 9--Continued.

	CLASS OF BONDS.	Total from 1884 to 1891 Inclusive. <i>Brought forward.</i>	1892 to 1894 Inclusive.		
			1892.	1893.	1894.
1	Water Works.		\$400,000	\$200,000	
2	Funded Debt	\$939,000	230,000	\$200,000	\$200,000
3	Infirmary.....	36,000			
4	Dredging Cuyahoga River.....	42,000			
5	Lake View and Monumental Park.....	288,250	30,000		
6	Canal.....				150,000
7	Viaduct.....			148,000	270,000
8	House of Correction.	184,000			
9	School ..	250,000			
	<i>Total General Bonds..</i>	<i>\$1,739,250</i>	<i>\$680,000</i>	<i>\$548,000</i>	<i>\$620,000</i>
10	Street Improvements	273,200			
11	Street Damages.	545,500			
12	Sewers.....	357,500	10,700		
	<i>Total General and Special Bonded Debt</i>	<i>\$2,915,450</i>	<i>\$670,700</i>	<i>\$548,000</i>	<i>\$620,000</i>

TABLE No. 9—Continued

1895 to 1907, Inclusive.						
1895.	1896.	1897.	1898.	1899	1907.	TOTAL.
\$200,000						\$ 800,000 1
	\$276,000					1,845,000 2
						36,000 3
						42,000 4
						318,250 5
88,000	26,000		\$ 11,000			275,000 6
300,000	500,000	\$225,000	570,000		\$125,000	2,138,000 7
						184,000 8
						250,000 9
\$588,000	\$802,000	\$225,000	\$581,000		\$125,000	\$5,888,250
						273,200 10
						545,500 11
						357,500 12
\$588,000	\$802,000	\$225,000	\$581,000		\$125,000	\$7,064,450

Total Amount of the General and Special Bonded Indebtedness December 31, 1880..... \$7,915,250

Total Amount of the General and Special Bonded Indebtedness December 31, 1881..... 7,064,450

Decrease during the year 1881..... \$850,800

TABLE NO. 10.
STATEMENT OF CERTIFIED ESTIMATES UNPAID
JANUARY 1, 1882.

	Date of Issue.	No.	To whom Issued.	No. of Esti- mate	For what Purpose.
1	May 21, 1876.....	367	Henry Zutafern	Final	Sprinkling.
2	November 4, 1875.....	258	Henry Starke	"	"
3	November 4, 1875.....	258	" "	"	"
4	November 4, 1875.....	257	" "	"	"
5	November 12, 1875....	275	Henry Zutafern.....	"	"
6	November 4, 1875.....	256	Henry Starke.....	"	"
7	November 4, 1875.....	264	" "	"	"
	Total.....				

TABLE NO. 10-Continued.

Name of Street	From.	To.	When Interest Commenced.	Amount.	
Clinton.....	Hanover.....	Kentucky..	May 6, 1876.....	\$ 83 25	1
Linden.....	Woodland.....	Scoville.....	October 15, 1875....	175 72	2
Laurel.....	".....	Garden.....	October 15, 1875....	337 06	3
Maple.....	".....	Scoville.....	October 15, 1875....	179 40	4
Pearl.....	Detroit..	Monroe.....	November 1, 1875...	405 64	5
Sterling.....	Woodland.....	Sibley.....	October 15, 1875..	177 89	6
Scoville.....	Willson.....	Brownell....	October 15, 1875....	924 38	7
.....	.....	.....	.....	2,283 34	

TABLE NO. 11.

STATEMENT OF THE AMOUNT OF CLEVELAND CITY
BONDS AND INTEREST MATURING DURING THE
YEAR 1882.

	FOR WHAT PURPOSES ISSUED.	Amount on which Interest is due.	JANUARY.	FEBRUARY
			Interest.	Interest.
1	Water Works.....	\$ 800,000		
2	Funded debt.....	1,845,000		\$ 14,000
3	Infirmary Fund.....	30,000		
4	Cuyahoga river dredging.....	42,000		
5	Parks.....	318,250		
6	Canal.....	275,000	\$ 5,250	
7	Viaduct.....	2,138,000		17,835
8	House of Correction.....	184,000		
9	Schools.....	250,000		3,000
10	Sewer District No. 1.....	22,300		
11	" " " 2.....	30,200		
12	" " " 3.....	7,700		150
13	" " " 4.....	800		
14	" " " 5.....	26,700		
15	" " " 7.....	210,300		
16	" " " 12.....	21,600		
17	Commercial street sewer.....	2,000		
18	Superior street sewer, east of Doan Brook.....	1,800		
19	St. Clair street sewer.....	14,600		
20	Sewer Districts 1 and 2, East Cleveland.....	19,500		
21	Street improvement and damage accounts.....	818,700		
22	Amount of bonds unpaid Jan. 1, 1882....	7,064,450		
23	Amount of bonds due in 1882.....			
24	Amount of interest due in 1882.....		5,250	34,985
25	Balance of bonds unpaid Jan. 1, 1883.....			
26	Total amount of bonds and interest due in 1882.....			

11:

(Concluded on next two pages.)

[illegible]

TABLE NO. 11—Continued.

	FOR WHAT PURPOSE ISSUED.	Amounts on which Interest is due.	Total due from January 1, 1882, to July 31, 1882, <i>Brought forward</i>		AUGUST.	
			Bonds.	Interest.	Bonds	Interest.
1	Water Works	800,000		\$27,000		
2	Funded debt	1,845,000		59,175		14,000
3	Infirmary	36,000		1,080		
4	Cuyahoga river dredging	42,000				
5	Parks	318,250		11,106 25		
6	Canal	275,000		14,820		
7	Viaduct	2,138,000		65,605		17,835
8	House of Correction	181,000		6,440		
9	Schools	250,000		8,250	100,000	3,000
10	Sewer District No. 1	22,300		780 50		
11	" " " 2	30,200		805		
12	" " " 3	7,700	\$700	241	5,000	150
13	" " " 4	800	800	24		
14	" " " 5	26,700		934 50		
15	" " " 7	210,300		6,986		
16	" " " 12	21,600		756		
17	Commercial street sewer	2,000				
18	Superior street sewer, E. D. B.	1,800				
19	St. Clair street sewer	14,600				
20	Sewer Dist's 1 and 2, E. Cleveland ..	19,500				
21	Street improv't & damage ac'ts	818,700				
22	Am't bonds unpaid, Jan. 1, 1882	7,034,450				
23	Am't bonds due in 1882		1,500		105,000	
24	Am't interest due in 1882			204,003 25		34,985
25	Bal. above bonds unpaid, Jan. 1, '83 ..					
26	Total amount bonds and interest due in 1882					

TABLE NO. 11—Continued.

SEPTEMBER.		OCT.	NOVEMBER.		DEC.	Total amount of bonds due in 1882.	Total amount of interest due in 1882.	Balance of bonds unpaid January 1, 1883.	
Bonds	Interest.	Interest.	Bonds	Inter- est.	Interest.				
.....	\$ 6,000 00	.....	.....	\$21,000	.....	.....	\$ 54,000 00	\$ 800,000	1
.....	23,490 00	\$ 7,000	.....	7,000	\$ 7,685	.....	118,350 00	1,845,000	2
.....	.....	.....	\$6,000	1,000	.....	\$ 6,000	2,160 00	30,000	3
\$22,000	2,520 00	.....	.....	.....	.....	22,000	2,520 00	20,000	4
3,250	35 22	1,050	.....	1,750	8,225	3,250	22,168 47	315,000	5
.....	3,990 00	.....	.....	300	.....	.....	19,140 00	275,000	6
.....	3,000 00	16,175	.....	10,375	18,220	.....	131,210 00	2,138,000	7
.....	.....	6,440	.....	.....	.....	.....	12,880 00	184,000	8
.....	.....	1,225	.....	1,750	2,275	100,000	16,500 00	150,000	9
6,000	780 50	.....	.....	.....	.....	6,000	1,561 00	16,300	10
6,000	1,309 00	.....	.....	.....	.....	6,000	2,114 00	24,300	11
.....	70 00	.....	.....	.....	.....	5,700	461 00	2,000	12
.....	.....	.....	.....	.....	.....	800	24 00	.....	13
6,000	934 50	.....	.....	.....	.....	6,000	1,869 00	20,700	14
26,000	7,735 00	.....	.....	.....	.....	26,000	14,721 00	184,300	15
6,000	756 00	.....	.....	.....	.....	6,000	1,512 00	15,600	16
2,000	140 00	.....	.....	.....	.....	2,000	140 00	.....	17
800	106 00	.....	.....	.....	.....	800	106 00	1,000	18
3,000	882 00	.....	.....	.....	.....	3,000	882 00	1,600	19
6,000	1,170 00	.....	.....	.....	.....	6,000	1,170 00	13,500	20
357,800	52,358 00	.....	.....	.....	.....	357,800	52,358 00	460,900	21
.....	.....	.....	.....	.....	.....	.....	.....	.....	22
444,850	.....	.....	6,000	.....	.....	557,350	.....	.....	23
.....	105,276 22	31,890	.....	43,235	36,405	.....	455,844 47	.....	24
.....	.....	.....	.....	.....	.....	.....	.....	6,507,100	25
.....	.....	.....	.....	.....	.....	.....	1,013,194 47	.....	26

TABLE No. 12.
COMPARATIVE SHOWING OF THE FOLLOWING
ITEMS FOR TEN YEARS.

	YEAR.	Rate of Levy in Mill.	Valuation.	Amount Levied for the General Funds.
1	1871.....	12 $\frac{1}{2}$	\$ 57,841,746	\$ 723,021 83
2	1872*.....	15 $\frac{1}{2}$	59,728,871	925,797 49
3	1873.....	51 $\frac{1}{2}$	69,144,682	1,082,114 27
4	1874.....	18 $\frac{1}{2}$	73,210,144	1,336,085 13
5	1875.....	18 $\frac{1}{2}$	73,305,277	1,374,473 94
6	1876.....	18 $\frac{1}{2}$	73,562,237	1,379,791 93
7	1877.....	17 $\frac{1}{2}$	71,296,122	1,272,636 74
8	1878.....	15 $\frac{1}{2}$	70,139,639	1,076,643 46
9	1879.....	15 $\frac{1}{2}$	70,548,104	1,061,748 96
10	1880.....	15 $\frac{1}{2}$	73,647,194	1,159,943 31
11	1881.....	14 $\frac{1}{2}$	79,586,156	1,118,185 49

* Until April 1, 1872, the fiscal year ended on April 1, but during the year 1872 the law was changed, making the fiscal year end December 31, hence the year 1872 contains but nine months.

TABLE NO. 12—Continued.

Disbursements for Ordinary Expenses of City Government.	Total Disbursements for the General Funds, Including Interest.	Interest on General Bonded Debt.	Total Par Value of all Sinking Funds, December 31.	Cash on hand December 31.	
\$ 537,996 83	\$ 774,837 90	\$ 166,035 17	\$1,501,107 36	\$ 280,531 09	1
646,882 53	829,328 17	134,615 64	1,725,662 98	34,383 93	2
802,555 84	1,542,676 91	257,716 24	1,796,391 52	182,090 59	3
856,443 97	1,190,417 95	300,386 86	1,833,641 17	92,447 35	4
887,078 26	1,505,977 63	331,027 10	1,925,204 62	City in debt to City Treas. 708 30	5
930,748 12	1,683,684 36	359,403 45	2,021,902 33	15,024 55	6
888,488 29	1,464,329 13	392,323 73	2,113,386 65	395,706 43	7
783,392 35	1,679,003 61	417,237 24	1,831,033 77	347,372 33	8
732,290 44	1,343,770 81	419,055 25	2,268,272 62	182,105 30	9
784,017 62	1,369,671 17	402,082 50	1,862,871 12	273,041 05	10
811,651 06	1,377,121 12	395,665 83	1,657,877 71	239,712 96	11

TABLE NO. 13.
CITY LEVY IN THE TAX OF 1881—UPON A DUPLICATE
VALUATION OF \$79,586,156, TO MEET
THE EXPENSES OF 1882.

	FUNDS.	Mills per Dollar.	Amount levied.
1	Bridge.....	2 ¹ / ₂	\$ 15,917 23
2	Dredging.....	2 ⁵ / ₁₀	31,834 45
3	Fire Department.....	12 ³ / ₁₀	155,193 02
4	General.....	1	79,586 15
5	Infirmary.....	2 ¹ / ₁₀	15,917 23
6	Interest.....	41 ¹ / ₁₀	362,117 98
7	Lighting.....	12 ³ / ₁₀	87,544 76
8	Park.....	2 ¹ / ₁₀	15,917 23
9	Pelton Park.....	2 ¹ / ₁₀	15,917 23
10	Police Department.....	12 ³ / ₁₀	147,234 42
11	Repaving.....	2 ⁵ / ₁₀	19,896 54
12	Sanitary.....	2 ³ / ₁₀	11,937 83
13	Sinking Fund (General).....	12 ¹ / ₁₀	95,503 39
14	" " (Viaduct and Canal).....	2 ¹ / ₁₀	3,979 31
15	Street Department.....	12 ³ / ₁₀	59,689 62
	Total.....	142 ¹ / ₁₀	\$1,118,186 49

TABLE NO. 14.

STATEMENT OF AMOUNTS LEVIED IN THE TAX OF
1881, ON MAIN SEWER DISTRICTS, TO PAY THE
PRINCIPAL AND INTEREST MATURING IN
1882 UPON BONDS ISSUED FOR COST OF
MAIN SEWERS THEREIN.

DISTRICT NO. 1—MAIN SEWER IN CASE AVENUE.	
Bonds maturing in 1882.....	\$ 6,000 00
Interest on \$22,300 one year 7 per cent.	1,561 00
Cost of Collection, 12-10 per cent.....	90 73
	\$ 7,651 73
SEWER DISTRICT NO. 2—MAIN SEWERS IN PERRY STREET AND STERLING AVENUE.	
Bonds maturing in 1882.....	\$ 6,000 00
Interest on \$30,200, one year, 7 per cent.	2,114 00
Cost of collection, 12-10 per cent	97 36
	\$ 8,211 36
SEWER DISTRICT NO. 3—MAIN SEWERS IN SENECA, ONTARIO, ERIE AND MUIRSON STREETS:	
Bonds maturing in 1882	\$ 5,700 00
Interest on \$5,700, 6 per cent, and \$2,000, 7 per cent.....	482 00
Cost of collection, 1,2-10.....	74 18
	\$ 6,256 18
SEWER DISTRICT NO. 4—MAIN SEWERS IN BRIDGE AND DETROIT STREET:	
No tax.	

TABLE NO. 14—Continued.

SEWER DISTRICT NO. 5—MAIN SEWERS IN OAKLAND AND SWISS STREETS:		
Bonds maturing in 1882.....	\$ 6,000 00	
Interest on \$26,700, one year, 7 per cent.....	1,869 00	
Cost of collection 1, 2-10 per cent.....	94 43	
		\$ 7,963 43
SEWER DISTRICT NO. 6—MAIN SEWER IN BROADWAY:		
No tax.		
SEWER DISTRICT NO. 7—MAIN SEWER IN WILLSON AVENUE:		
Bonds maturing in 1882.....	\$26,000 00	
Interest on \$210,300, one year, 7 per cent.....	14,721 00	
Cost of collection, 1 2-10 per cent.....	488 65	
		\$41,209 65
SEWER DISTRICT NO. 8—MAIN SEWER IN MULBERRY STREET:		
No tax.		
SEWER DISTRICT NO. 9—MAIN SEWERS IN JAMES AND FRONT STREETS:		
No tax.		
SEWER DISTRICT NO. 10—MAIN SEWERS IN CUYA-HOGA AND UNIVERSITY STREETS:		
No tax.		
SEWER DISTRICT NO. 11—MAIN SEWER IN JENNINGS AVENUE:		
No tax.		

TABLE NO. 14—Continued.

SEWER DISTRICT NO 12—MAIN SEWER IN PEARL STREET :	
Bonds maturing in 1882.	\$ 6,000 00
Interest on \$21,000, one year, 7 per cent.	1,512 00
Cost of collection, 12-10 per cent.	90 14
	\$ 7,602 14
COMMERCIAL STREET SEWER DISTRICT.	
Bonds maturing in 1882.	\$ 2,000 00
Interest on \$2,000, one year, 7 per cent.	140 00
Cost of Collection, 12-10 per cent.	25 68
	\$ 2,165 68

TABLE NO. 15.

A LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF
1881 TO MEET OUTSTANDING BONDS AND INTEREST.

LIST NO. 1.

IMPROVEMENT.	No. of Installments. Installment of 1881.		Amount Levied.
Allen street, opening, from Burnham street to Parkman street.....	5	2	\$ 1,525 80
Bond street, opening, from Superior street to Euclid avenue.....	5	2	23,123 58
Becker avenue, widening, from St. Clair street to E. Madison avenue.	5	2	502 70
Cuyahoga river dredging, from upper Central way bridge to west line of Original lot No. 281.....	6	5	11 886 04
Central way masonry under Cleveland & Mahoning R. R. bridge . . .	5	4	3,363 70
Chestnut Ridge street, macadamizing.....	5	5	6,454 50
Central way bridge, under Cleveland & Mahoning Railroad.....	5	4	343 06
Custead avenue, opening, from Superior street to Hough avenue.....	5	2	81 89
Euclid avenue, macadamizing, from Fairmount street to city limits...	10	8	5,675 52
East Madison avenue, macadamizing, from Euclid avenue to Superior street (balance of assessment)			902 72
East Madison avenue, grading and curbing, from Euclid avenue to north line of original lot 341 (balance of assessment)			252 36
Grand avenue, opening	5	2	479 65
Grand avenue, grading.....	5	5	1,416 06
Hamilton street, grading, from Mulrson street to Canfield street.....	3	3	850 13
Herman street, grading damages, from St. Paul to Weddell.....	3	3	1,060 63
Hough avenue, grading, from Willson avenue to East Madison avenue (balance of assessment)			1,815 94
Hough avenue, opening, from Willson avenue to Ansel avenue (bal- ance of assessment).....			1,852 25
Marquette street, opening.....	5	2	610 92
Orange street, opening, etc.....	5	2	977 54
Payne avenue, opening, etc.....	5	2	37,701 75
Perry street, paving, from Woodland avenue to Broadway.....	5	5	1,435 01
Prospect street, paving, from Erie street to Perry street.....	5	5	4,009 57
Carried forward.....			106,311 40

TABLE NO. 12. LIST NO. 1—Continued.

IMPROVEMENT.	No. of Installments, Installment of 1881.		Amount Levied.
<i>Brought forward</i>			106,311 40
Russell avenue, opening and widening, from Superior street to Beecher street.	5	2	879 18
Seneca street, opening.....	5	2	4,328 88
Sheriff street, opening, from Prospect street to Huron street	5	2	12,961 22
St. Clair street, paving, from Wood street to Erie street.....	5	5	2,069 16
St. Clair street, paving, from Wood street to Water street.....	4	4	3,751 69
Seneca street, grading, from St. Clair street to Union passenger depot	5	2	1,019 32
Summit street opening, from Seneca street to Erie street..	10	7	3,301 42
St. Clair street, widening, from Willson avenue to east line of the City	5	2	1,752 44
St. Paul street, grading damages, from Detroit street to Herman street	3	3	954 16
Superior street, sewer, assessment, east of Doan Brook.....	5	5	1,122 96
Willson avenue, opening, assessment, from Sawtell avenue to Broadway... ..	5	2	2,735 15
Willson avenue, grading, etc., assessment.....	5	2	3,061 68
Wade Park avenue, opening, assessment.....	5	2	5,067 23
Warner Road, grading, etc., assessment.....	5	4	1,635 36
Willson avenue, widening, re-assessment, from St. Clair street to Lake Erie	5	2	4,710 49
Total amount of list No. 1.....			155,001 63

TABLE NO. 15--Continued.

A LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF
1881 IN ADVANCE OF THE IMPROVEMENT.

LIST NO. 2.

IMPROVEMENT.	No. of Installments.		Amount Levied.
	Installment of 1881.		
Allen street, grading, del., from Burnham street to Parkman street.	1	1	277 56
Abby street, sidewalks, del.	1	1	147 84
Broadway, paving, del., from Ohio street to Broadway south	2	1	10,512 30
Bank street, paving, del., from Superior to a point 289 feet north of Lake street.	1	1	11,336 46
Bank street, sewer, del., from Superior to a point 340 feet north of Lake street.	1	1	5,471 83
Burnham street, sewer, del., from Scovill avenue to a point 160 feet north of north line of Woodland avenue.	1	1	1,589 41
Birch street, sidewalks, del.	1	1	33 75
Broadway, paving, del., from Independence street to a point 900 feet southeasterly	1	1	3,480 42
Cuyahoga river, dredging, del., from Government piers to upper Central way bridge	1	1	15,379 33
Cuyahoga river, dredging, del., from U. C. way bridge to west line of original lot 281.	1	1	7,841 44
Case avenue, paving, del., from Euclid avenue to Garden street.	1	1	19,661 14
Clinton street, grading and curbing., del., from Taylor street to Liberty street	1	1	852 38
Cherry street, sidewalks, del.	1	1	200 60
Davenport street, sidewalks, del.	1	1	57 40
Detroit street, repaving, del., from a point 138 feet east of Pearl street to Pearl street	2	1	439 01
Detroit street, repaving, del., from Pearl street to Kentucky street	2	1	4,948 83
Detroit street, repaving, del., from a point 205 feet west of Waverly street to city line.	1	1	8,049 57
Detroit street, sidewalks, del.	1	1	191 69
Carried forward			90,470 96

TABLE NO. 15. LIST NO. 2—Continued.

IMPROVEMENT.	No. of Installments of 1891.		Amount Levied.
<i>Brought forward</i>			90,470 98
Erie street, re-paving, del., from Lakestreet to Euclid avenue.....	2	1	5,097 87
Erie street, re-paving, del., from Euclid avenue to Huron street.....	2	1	2,359 05
Erie street, re-paving, del., from Huron street to Ohio street.....	2	1	2,953 59
Erie street, re-paving, from Ohio street to Woodland avenue.....	2	1	1,484 27
Fulton street, sidewalks, del.....	1	1	50 61
Franklin street, sidewalks, del.....	1	1	1,612 10
Hamilton street, sewer, del., from Ontario street to Wood street....	1	1	458 00
Hanover street, sidewalks, del.....	1	1	144 29
Krupp alley, gradings, etc., del., from Lorain street to Keen alley....	1	1	723 10
Lorain street, grading and damages, del. from Waverly street to Chestnut Ridge street.....	1	1	559 31
Lorain street, sidewalks, del.....	1	1	52 00
Liberty street, sidewalks, del.....	1	1	45 50
Monument Park, paving, del., from Superior to Ontario street, (south and west sides of park).....	1	1	2,365 51
Old river bed, dredging, del., from Weddell street to Cuyahoga river.	1	1	5,286 19
Payne avenue, grading, etc., del., from Superior street to Huntington street.....	1	1	2,437 69
Pearl street, sidewalks, del.....	1	1	76 80
Poplar street, grading, etc., del., from Clark avenue to Storer avenue.	1	1	354 88
Pearl street, re-paving, del., from Detroit street to north line of Willey street.....	1	1	17,356 17
Root street, sidewalks, del.....	1	1	58 56
Scovill avenue sewer, del., from Willson avenue to First avenue.	1	1	1,381 60
Superior street, re-paving, del., from west line of Water street to east curb line of west side of Monumental Park.....	1	1	7,912 37
<i>Carried forward</i>			143,220 42

TABLE. NO. 15. LIST NO. 2—Continued.

IMPROVEMENT.	No. of Installments of 1881.		Amount Levied.
<i>Brought forward</i>.....	...	...	143,220 42
Superior street, re-paving, del., from Monumental Park to Erie street	2	1	6,024 86
Superior street, re-paving, del., from Erie street to Perry street.....	1	1	6,424 20
Superior street, grading and curbing, del., from Perry street to Willson avenue	1	1	10,806 67
Seneca street, re-paving, del., from Superior street to St. Clair street...	2	1	2,423 28
Summit street, curbing, del., from Seneca street to Erie street	1	1	536 59
St. Clair street, sidewalks, del.....	1	1	241 80
Sibley street, curbing and improving, del., from Case avenue to Kennard street.....	1	1	395 73
Sibley street, grading and curbing, from Case avenue to Hayward street	1	1	1,082 56
Vine street, sewer, del., from Scoville avenue to a point 100 feet north of Woodland avenue.....	1	1	1,570 35
Water street, sidewalks, del.....	1	1	33 00
Woodland avenue, paving, del., from Ohio street to Perry street.....	1	1	14,559 68
Woodland avenue, paving, del., from Perry street to Willson avenue....	2	1	20,223 38
Willson avenue, grading, del., from Broadway to N. Y. P. & O. R. R...	1	1	2,319 25
West Madison avenue, sidewalks.....	1	1	219 28
Smith street, sidewalks.....	1	1	128 40
Jackson street, sidewalks.	1	1	92 00
Parkman street, sidewalks.....	1	1	40 80
Total amount of list No. 2.....	...	...	210,341 07

TABLE NO. 16.
BALANCE SHEET, JANUARY 1, 1882.

	BALANCE DEBIT.	BALANCE CREDIT.
Atlantic street, grading, etc.....	\$ 2,189 82	
Armory Fund.....		\$ 327 73
Arlington street, opening.....	409 46	
Allen street, opening.....	4,993 10	
Bond Account { General bonds.....		5,888,250 00
{ Street improvements.....		274,000 00
{ Sewers.....		357,500 00
{ Street Damages.....		544,700 00
Burton street, grading and damages.....	444 72	
Bond street, grading, from Euclid to Superior.....		400 00
Bond street, opening.....	59,179 64	
Becker avenue, widening.....	1,229 40	
Broadway, paving, Ohio to Independence..	6,973 94	
" " Independence to Union.....	20,449 31	
" " Union to Miles.....	88,289 13	
" " Miles to Woodland Hills ..	104 96	
Brownell street, grading and paving.....	1,673 30	
Beckwith street..	1,077 23	
Bank street, sewer.....		652 00
Bills receivable.....	6,425 63	
Bills payable.....		18,000 00
Bridge fund.....		2,619 09
Bank street, paving		5,888 24
Bank street extension, paving.....		363 04
Bailey street, opening and widening...	1,715 60	
Carried forward	\$195,005 24	\$7,092,694 10

TABLE NO. 16—Continued.

	BALANCE DEBIT.	BALANCE. CREDIT.
<i>Brought forward</i>	\$195,005 24	\$7,082,694 10
Broadway Sewer District.....	127 83	
Bank street Rail Road Co.....	144 87	
Broadway & Newburgh Railway Co	3,626 68	
Clark avenue, grading.....		2,749 03
Custead avenue, opening.....	67 19	
Central Place, opening.....	38,476 43	
Commercial street, sewer.....	1,957 11	
Cedar street, grading, Perry to Willson		660 36
Chestnut Ridge street, macadamizing... ..	18,040 50	
Commercial street.....		1,096 44
Case avenue, grading, Euclid to Payne avenue.		325 23
Cedar avenue, macadamizing, East Cleveland.....	12,705 62	
Cuyahoga River, dredging.....	53,237 27	
Case avenue, paving, Euclid to Garden.....		4,577 48
Cleveland & Newburgh Street Railway Co.....	8,415 14	
Cleveland & Brooklyn Street R. R. Co.....	484 96	
Certified Estimate Account.....		2,283 34
Canal Fund, balance cash.....		975 64
“ “ bonds outstanding.....	275,000 00	
Central Way Bridge.....	23 59	
Central Way, masonry.....	4,216 67	
Columbus, Pearl and Walworth Run, bridge im- provements.....	50,400 00	
Detroit street, Kentucky to 220 feet west of Wa- verley.....	1,160 77	
Detroit street, repaving.....		3,199 45
Detroit street, repaving.....		206 96
Delinquent Sidewalks	2,046 92	
<i>Carried forward</i>	\$635,136 79	\$7,109,584 84

TABLE NO. 16—Continued.

	BALANCE DEBIT.	BALANCE CREDIT.
<i>Brought forward</i>	\$665,136 79	\$7,108,768 01
East Madison avenue, macadamizing.....		675 18
Erie street, repaving.....		141 65
Eagle street, improvements.....	250 80	
Euclid avenue, Fairmount to city limits.....	13,788 64	
Euclid avenue, widening.....	80 71	
Euclid avenue, west of Erie street.....	29,804 73	
Euclid avenue, Willson to Fairmount.....	40,025 51	
East Prospect street, opening.....	5,025 80	
Everett, S. T., City Treasurer.....	239,712 06	
Fire Department.....		1,494 68
Fairfield street.....		450 00
Forest street, grading and damages.....		690 43
Funded Debt, bond account.....	1,845,000 00	
Fairmount street, macadamizing.....	4,185 02	
General Fund, cash.....		26,194 59
" " bills receivable.....		6,425 63
Giddings avenue, opening.....	1,494 81	
Garden street, paving.....		4,436 32
Grand avenue, grading.....	8,039 82	
Grand avenue, damages.....	1,614 29	
Garden street, sewer.....		150 20
Hough avenue.....	3,223 52	
Herman street, opening, etc.....		177 37
House of Correction, cash.....		4,651 51
" " bonds outstanding.....	184,000 00	
Hamilton street, grading.....	859 32	
Hodge street, grading.....	319 18	
Hemlock street, damages.....		306 73
<i>Carried forward</i>	\$3,043,482 59	\$7,154,651 30

TABLE NO. 16—Continued.

	BALANCE DEBIT.	BALANCE CREDIT.
<i>Brought forward</i>	\$3,043,482 50	\$7,154 651 30
Hodge avenue, damages	274 03	
Hodge street, damages	572 18	
Herald street, grading, etc	19,327 64	
Hodge avenue.....		621 65
Infirmary Fund, cash.....		2,290 50
Infirmary Fund, bonds outstanding	36,000 00	
Interest Fund.....		8,407 68
Iona street, grading.....		52 27
Isabella street, grading		95 90
Jennings avenue, paving	4,746 59	
Junction street, grading.		5,227 83
John G. Jennings, and John G. Jennings's Trustee, balance due for Pelton Park		16,666 68
Kinsman street, paving, etc	56,311 08	
Lincoln avenue, grading, etc.....	347 25	
Lorain street, damages by grading		118 61
Lake street, paving	668 49	
Lorain street, paving.....		20 07
Lighting Fund		6,578 01
Market Fund		6,614 56
Mulberry street	1,223 35	
March street opening.....	3,689 00	
Miles street, damages.....	338 54	
Marquette street, damages	6,047,76	
McMahon, John E.....		4,977 48
Monument square, repaving.....		993 58
N. Woodland avenue, damages.		642 15
<i>Carried forward</i>	3,173,028 70	7,207,958 36

TABLE NO. 16—Continued.

	BALANCE DEBIT.	BALANCE. CREDIT.
<i>Brought forward</i>	3,173,028 70	7,207,958 36
Ontario street		300 00
Old River street		1,030 02
Orange street, opening	5,106 22	
Police Court Fund		8,997 44
Police Department		1,382 81
Pearl street, re-paving		7,753 68
Pearl street, paving, etc.	3,822 34	
Perry street, paving, etc		25 74
Park Fund		751 45
Park bonds outstanding	318,250 00	
Payne avenue, opening	128,164 92	
Prospect street, repaving, Erie to Perry	2,489 41	
Prospect street, paving, Perry to Willson		2,285 32
Pelton Park Fund	14,197 87	
Russell avenue, opening, etc.	2,914 03	
Sanitary Fund		4,038 85
Sinking Fund, (general bonds)		15,920 27
Seneca street, repaving		1,199 47
Street intersections		6,103 84
Street Department		11,782 97
Superior street, repaving, Park to Erie		1,179 14
Steel & McMahon		2,373 20
Special road fund		327 42
Seneca street opening, etc.	15,954 91	
Seneca street, paving, etc.	1,384 86	
Superior street, grading, Perry to Willson.		770 93
Superior street, widening	7,234 81	
<i>Carried forward</i>	3,670,578 07	7,274,180 91

TABLE No. 16—Continued.

	BALANCE DEBIT.	BALANCE CREDIT.
<i>Brought forward</i>	3,670,578 07	7,274,180 91
St. Clair street, paving.....	8,862 29	
St. Clair street, widening.....	13,376 98	
Summit street, opening	25,470 45	
Seyler alley, opening.....		633 79
School bond account.....	250,000 00	
St. Paul street, grading, etc.	894 92	
South Side Street R. R. Co.	186 29	
Slater street opening	3,251 51	
Sewer District Nos. 1 and 2, East Cleveland ..	17,276 25	
Sewer District No. 3		205 22
Superior street sewer, east of Doan Brook	3,820 96	
Superior street sewer, west of Doan Brook	841 20	
Sewer District No. 1.....	24,020 23	
" " " 2.....	29,643 69	
" " " 3	8,062 20	
" " " 4		767 19
" " " 5	25,611 57	
" " " 6.....		708 06
" " " 7	210,823 63	
" " " 8.....		671 20
" " " 10		208 52
" " " 11.....		151 00
" " " 12	21,715 61	
St. Clair street sewer.....	19,506 49	
Sinking Fund Commissioners	404,159 23	
Tod street, grading.....		703 51
University street, opening.....		258 18
<i>Carried forward</i>	4,738,121 52	7,278,547 57

TABLE NO. 16—Continued.

	BALANCE DEBIT.	BALANCE CREDIT.
<i>Brought forward</i>	4,733,121 52	7,278,547 57
Viaduct and Canal Sinking Fund.....		389,108 42
Viaduct Fund		927 76
Vega avenue.....		407 34
Viaduct bonds.....	2,138,000 00	
Weddell street		731 96
West River street.....	1,750 57	
Wade Park avenue, grading etc	6,981 92	
Water Works Fund.....	733,980 06	
Willson avenue, damages, from Julia street to Saw- tell avenue.....		2,011 66
Willson avenue, opening, North of St. Clair street.....	18,841 92	
Willson avenue, damages, from Sawtell avenue to Broadway	12,162 05	
Warner Road, grading, etc.....	2,920 86	
Willson avenue, grading, from Euclid avenue to Woodland avenue.....		670 34
Willson avenue, grading, from Euclid avenue to Lake Erie.....	16,375 00	
Woodland Hills avenue, grading, etc.....		324 81
Woodland Hills avenue, damages.....		432 30
Woodland avenue, macadamizing.....	8,473 55	
Woodland avenue from East Madison to Woodland Hills.....		3,953 63
Willson avenue, grading from Maurice street to Saw- tell avenue.....	2,778 09	
Wade Park avenue, opening.....	12,865 37	
<i>Carried forward</i>	7,688,230 90	7,677,115 88

TABLE NO. 16—*Continued.*

	BALANCE DEBIT.	BALANCE CREDIT.
<i>Brought forward</i>	7,688,230 90	7,677,115 88
Willson avenue, grading, from Julia street to Maurice street.....		2,525 16
Woodland avenue, repaving, from Ohio street to Perry street.....		8,599 86
Total	\$7,688,230 90	\$7,688,230 90

Respectfully submitted,

HENRY FORD,

City Auditor.

ANNUAL REPORT
OF THE
CITY
TREASURER,
OF THE
CITY OF CLEVELAND,
FOR THE FISCAL YEAR ENDING DEC. 31, 1881.

CITY TREASURER'S REPORT.

To the Honorable Mayor and City Council of the City of Cleveland, Ohio:

GENTLEMEN :

Herewith I beg to submit a detailed statement of the receipts and disbursements of the several funds of the city for the year ending December 31st, 1881 :

DR.

ATLANTIC STREET GRADING—			
Overdrawn January 1, 1881.....		\$1,013 87	
Disbursements.....	\$1,070 00		
Receipts	544 05	525 95	
Overdrawn.....			\$2,130 82
ALLEN STREET OPENING—			
Overdrawn January 1, 1881.....		3,735 48	
Disbursements.....	2,675 00		
Receipts	1,517 38	1,157 62	
Overdrawn.....			4,893 10
ARLINGTON STREET OPENING—			
Overdrawn January 1, 1881.....		409 46	
Overdrawn.....			409 46
BROWNELL STREET PAVING—			
Balance to credit January 1, 1881.....		3,565 32	
Disbursements.....	5,350 00		
Receipts	111 38	5,238 62	
Overdrawn.....			1,673 30
BROADWAY FUND—			
Overdrawn January 1, 1881.....		37,332 30	
Disbursements.....	62,368 95		
Receipts	32,642 18	29,726 77	
Overdrawn.....			67,059 16

BECKWITH STREET—			
Overdrawn January 1, 1881		\$1,103 00	
Receipts		26 87	
Overdrawn			\$1,077 23
BAILEY ST. OPENING AND WIDENING—			
Overdrawn January 1, 1881		543 15	
Disbursements	\$2,986 00		
Receipts	1,823 55	1,172 45	
Overdrawn			1,715 00
BROADWAY SEWER—E. Kingsbury Run—			
Overdrawn January 1, 1881		172 54	
Receipts		44 71	
Overdrawn			127 83
BURTON STREET—			
Overdrawn January 1, 1881		444 72	
Overdrawn			444 72
BECKER AVENUE WIDENING—			
Overdrawn January 1, 1881		138 81	
Disbursements	1,640 48		
Receipts	519 89	1,080 59	
Overdrawn			1,229 40
CEDAR AVENUE MACADAMIZING—			
Overdrawn January 1, 1881		47 37	
Disbursements	3,720 09		
Receipts	61 75	3,658 25	
Overdrawn			3,705 62
CHESTNUT RIDGE MACADAMIZING—			
Overdrawn January 1, 1881		595 50	
Disbursements		6,445 00	
Overdrawn			7,040 50
CUSTEAD AVENUE OPENING—			
Balance to credit January 1, 1881		912 21	
Disbursements	1,060 00		
Receipts	80 60	979 40	
Overdrawn			67 19
DELINQUENT SIDEWALK FUND—			
Overdrawn January 1, 1881		2,740 08	
Receipts from County Treasurer	6,987 47		
Disbursements	6,243 41	694 06	
Overdrawn			2,046 92

DETROIT STEET PAVING—			
Overdrawn January 1, 1881		\$106 27	
Disbursements	\$7,276 00		
Receipts	6,221 50	1,054 50	
Overdrawn			\$1,160 77
EUCLID AVENUE PAVING—Willson ave. to Fairmount street—			
Overdrawn January 1, 1881		986 56	
Disbursements	11,235 48		
Receipts	106 58	11,038 95	
Overdrawn			12,025 51
EAST PROSPECT STREET OPENING—			
Overdrawn January 1, 1881		1,110 89	
Disbursements		4,815 00	
Overdrawn			5,925 89
EUCLID AVENUE PAVING—W. Erie St.—			
Overdrawn January 1, 1881		174 78	
Disbursements		5,630 00	
Overdrawn			5,804 78
EUCLID AVENUE DAMAGES—			
Overdrawn January 1, 1881		126 91	
Receipts	2,186 21		
Disbursements	2,140 00	46 21	
Overdrawn			80 71
EAGLE STREET PAVING—			
Balance to credit January 1, 1881		233 41	
Disbursements	3,210 00		
Receipts	2,725 79	484 21	
Overdrawn			250 80
FAIRMOUNT STREET MACADAMIZING—			
Balance to credit January 1, 1881		671 73	
Disbursements	1,293 00		
Receipts	25 67	1,267 35	
Overdrawn			566 02
GRAND AVENUE OPENING—			
Overdrawn January 1, 1881		843 65	
Disbursements	1,070 00		
Receipts	299 31	770 64	
Overdrawn			1,614 29

GRAND AVENUE GRADING—			
Overdrawn January 1, 1881.....		\$210 34	
Disbursements.....	\$3,295 00		
Receipts.....	1,465 52	1,829 48	
Overdrawn.....			\$2,039 82
GIDDINGS AVENUE DAMAGES—			
Overdrawn January 1, 1881.....		1,494 81	
Overdrawn.....			1,494 81
HERALD STREET—			
Balance to credit January 1, 1881.....		622 16	
Disbursements.....		950 00	
Overdrawn.....			327 84
HAMILTON STREET—			
Overdrawn January 1, 1881.....		86 18	
Disbursements.....	790 00		
Receipts.....	766 86	23 14	
Overdrawn.....			59 32
HODGE AVENUE DAMAGES—			
Overdrawn January 1, 1881.....		274 03	
Overdrawn.....			274 03
HOUGH AVENUE—			
Overdrawn January 1, 1881.....		3,223 52	
Overdrawn.....			3,223 52
HODGE STREET DAMAGES—			
Overdrawn January 1, 1881.....		572 18	
Overdrawn.....			572 18
JENNINGS AVENUE—			
Overdrawn January 1, 1881.....		2,497 24	
Disbursements.....	2,438 00		
Receipts.....	2 38	2,435 64	
Overdrawn.....			4,932 88
LINCOLN AVENUE—			
Balance to credit January 1, 1881.....		728 20	
Disbursements.....	2,754 18		
Receipts.....	1,678 73	1,075 45	
Overdrawn.....			347 25
LAKE STREET PAVING—			
Overdrawn January 1, 1881.....		975 03	
Receipts.....		308 54	
Overdrawn.....			666 49

MARQUETTE STREET—			
Balance to credit January 1, 1881.		\$29 29	
Disbursements.	\$4,580 00		
Receipts.	4,502 95	77 05	
Overdrawn.			\$47 76
MILES STREET—			
Overdrawn January 1, 1881.		460 22	
Receipts.	222 72		
Disbursements.	101 04	121 68	
Overdrawn.			338 54
MULBERRY STREET—			
Overdrawn January 1, 1881.		1,223 35	
Overdrawn.			1,223 35
MARCH STREET OPENING—			
Overdrawn January 1, 1881.		3,737 38	
Receipts.		48 28	
Overdrawn.			3,689 00
ORANGE STREET OPENING—			
Balance to credit January 1, 1881.		133 43	
Disbursements.	\$7,339 76		
Receipts.	2,100 11	5,239 65	
Overdrawn.			5,106 22
PEARL STREET PAVING—			
Overdrawn January 1, 1881.		4,352 35	
Receipts.		45 05	
Overdrawn.			4,307 30
SEWER DISTRICT NO. 1—			
Balance to credit January 1, 1881.		20 63	
Disbursements.	8,902 57		
Receipts.	7,161 71	1,740 86	
Overdrawn.			1,720 23
SEWER DISTRICT NO. 3—			
Balance to credit January 1, 1881.		1,204 80	
Disbursements.	5,450 75		
Receipts.	3,863 75	1,587 00	
Overdrawn.			382 20
SEWER DISTRICT NO. 7—			
Balance to credit January 1, 1881.		940 67	
Disbursements.	23,325 35		
Receipts.	27,861 05	1,464 30	
Overdrawn.			523 63

SEWER DISTRICT NO. 12—			
Balance to credit January 1, 1881		\$207 19	
Disbursements	\$8,467 00		
Receipts	8,144 20	322 80	
Overdrawn			115 61
SUMMIT STREET OPENING—			
Overdrawn January 1, 1881		524 96	
Disbursements	5,781 00		
Receipts	3,135 51	2,645 49	
Overdrawn			3,170 45
SENECA STREET—			
Balance to credit January 1, 1881		2,400 00	
Disbursements	5,348 61		
Receipts	1,563 73	3,784 88	
Overdrawn			1,384 86
ST. CLAIR STREET WIDENING—			
Overdrawn January 1, 1881		473 30	
Disbursements	6,308 62		
Receipts	1,405 01	4,903 61	
Overdrawn			5,876 93
SUPERIOR STREET DAMAGES—			
Overdrawn January 1, 1881		2,313 71	
Disbursements		951 10	
Overdrawn			3,264 81
SUPERIOR ST. SEWER—W. Doan Brook—			
Disbursements		841 20	
Overdrawn			841 20
ST. CLAIR STREET SEWER—			
Overdrawn January 1, 1881		856 11	
Disbursements	4,082 00		
Receipts	41 62	4,050 38	
Overdrawn			4,906 49
SUPERIOR ST. SEWER—E. Doan Brook—			
Overdrawn January 1, 1881		628 30	
Disbursements	2,551 64		
Receipts	1,159 01	1,392 63	
Overdrawn			2,020 96
WILLSON AVENUE—			
Balance to credit January 1, 1881		1,990 68	
Disbursements	21,116 33		
Receipts	13,668 06	7,448 27	
Overdrawn			5,457 59

WILLSON AVE. OPENING & WIDENING—			
Balance to credit January 1, 1881.....		\$2,808 93	
Disbursements.....	\$17,798 00		
Receipts.....	9,491 78	8,301 24	
Overdrawn.....			\$5,998 31
WEST RIVER STREET—			
Overdrawn January 1, 1881.....		1,786 60	
Receipts.....		36 03	
Overdrawn.....			1,750 57
WADE PARK AVENUE—			
Overdrawn January 1, 1881.....		6,961 92	
Overdrawn.....			6,961 92
WAVERLY STREET—			
Overdrawn January 1, 1881.....		319 18	
Overdrawn.....			319 18
WOODLAND AVENUE—			
Balance to credit January 1, 1881.....		5163 22	
Disbursements.....	21,590 07		
Receipts.....	14,610 93	6,988 14	
Overdrawn.....			1,519 92
WADE PARK AVENUE DAMAGES—			
Overdrawn January 1, 1881.....		6,034 77	
Disbursements.....	9,318 47		
Receipts.....	2,487 87	6,830 60	
Overdrawn.....			12,865 37

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ARMORY FUND—			
Balance to credit January 1, 1881.....		610 39	
Disbursements.....	1,788 66		
Receipts from licenses.....	1,456 00		
		232 66	
Balance.....			377 73
BRIDGE FUND—			
Balance to credit January 1, 1881....		326 11	
Receipts from County Treasurer.....	86,072 23		
Receipts from West Side Street R. R. Co.....	752 00		
Receipts from Brooklyn Street R. R. Co.....	131 12		
	86,955 35		
Disbursements.....	84,662 57	2,292 98	
Balance.....			2,619 09
BANK STREET REPAVING—			
Receipts.....		5,862 24	
Balance.....			5,862 24
BANK STREET SEWER—			
Receipts.....		652 00	
Balance.....			652 00
BOND STREET OPENING—			
Balance to credit January 1, 1881.....		7,037 33	
Receipts.....	47,956 02		
Disbursements.....	47,171 99		
		783 03	
Balance.....			7,820 36
BANK STREET PAVING—			
Balance to credit January 1, 1881.....		349 63	
Receipts.....		13 41	
Balance.....			363 04
BOND STREET PAVING—			
Balance to credit January 1, 1881.....		400 00	
Balance.....			400 00

CANAL FUND—			
Balance to credit January 1, 1881.....		\$975 64	
Balance.....			\$975 64
CASE AVENUE PAVING—Euclid avenue to Garden street—			
Receipts.....		18,781 44	
Disbursements.....		14,203 96	
Balance.....			4,577 46
CLARK AVENUE GRADING—			
Balance to credit January 1, 1881.....		168 45	
Receipts.....	\$2,606 58		
Disbursements.....	28 00	2,580 58	
Balance.....			2,749 03
CENTRAL PLACE OPENING—			
Balance to credit January 1, 1881.....		4,496 41	
Receipts.....	37,967 53		
Disbursements.....	16,462 37	21,525 16	
Balance.....			26,023 57
COMMERCIAL STREET PAVING—			
Balance to credit January 1, 1881.....		777 86	
Receipts.....	2,458 58		
Disbursements.....	2,140 00	818 58	
Balance.....			1,096 44
CEDAR AVENUE—Perry street to Willson avenue—			
Balance to credit January 1, 1881.....		660 30	
Balance.....			660 36
COMMERCIAL ST. SEWER DISTRICT—			
Overdrawn January 1, 1881.....		78 20	
Receipts.....	2,401 09		
Disbursements.....	2,280 00	121 09	
Balance.....			42 89
CASE AVENUE PAVING—Euclid to Payne Avenue—			
Balance to credit January 1, 1881.....		1,096 08	
Disbursements.....	5,750 00		
Receipts.....	4,977 15	772 85	
Balance.....			325 23

CENTRAL WAY—			
Balance to credit January 1, 1881.....		\$822 75	
Disbursements.....	\$7,760 00		
Receipts.....	7,696 99	68 01	
Balance.....			\$759 74
CUYAHOGA RIVER DREDGING FUND—			
Balance to credit January 1, 1881....		42 49	
Receipts from County Treasurer.....	67,153 02		
Receipts from Finance Committee.....	18,000 00		
Receipts from direct collections.....	993 79		
	86,146 81		
Disbursements.....	79,426 57	6,720 24	
Balance.....			6,762 73
DETROIT STREET REPAVING—			
Receipts.....		3,406 41	
Balance.....			3,406 41
EAST MADISON AVENUE—			
Balance to credit January 1, 1881.....		675 18	
Balance.....			675 18
EUCLID AVENUE MACADAMIZING—			
Fairmount street to City limits—			
Overdrawn January 1, 1881....		777 14	
Receipts.....	6,544 63		
Disbursements.....	5,466 13	1,078 50	
Balance.....			301 36
ERIE STREET REPAVING—			
Receipts.....		141 65	
Balance.....			141 65
FIRE DEPARTMENT FUND—			
Balance to credit January 1, 1881.....		2,723 88	
Receipts from County Treasurer.....	144,344 36		
Receipts from A. J. Spencer, Sec'y....	3,123 49		
	147,467 85		
Disbursements.....	148,697 06	1,229 20	
Balance.....			1,494 68
FAIRFIELD STREET—			
Balance to credit January 1, 1881.....		450 00	
Balance.....			450 00

FOREST STREET GRADING—			
Balance to credit January 1, 1881.....		\$700 00	
Disbursements.....	\$1,361 83		
Receipts.....	1,352 86	9 57	
Balance.....			\$690 43
GENERAL FUND—			
Balance to credit January 1, 1881.....		35,409 50	
Receipts from County Treasurer.....	97,432 45		
Receipts from City Hall and other rents.....	8,851 92		
Receipts from City Clerk—licen ses.....	4,841 85		
Receipts from hay scales.....	2,374 31		
Receipts from pounds.....	157 84		
Receipts from Harbor Master—wharfage.....	27 75		
Receipts from other sources.....	4,987 74		
	118,623 86		
Disbursements.....	127,838 77	9,214 91	
Balance.....			26,194 59
GARDEN STREET—			
Balance to credit January 1, 1881.....		4,436 32	
Balance.....			4,436 32
GARDEN STREET SEWER—			
Overdrawn January 1, 1881.....		2,084 92	
Receipts.....		2,185 12	
Balance.....			150 20
HOUSE OF CORRECTION FUND—			
Balance to credit January 1, 1881.....		7,300 81	
Receipts from W. D. Patterson, Supt.....	75,802 80		
Receipts from sale of land.....	800 00		
	76,402 80		
Disbursements.....	79,062 10	2,649 30	
Balance.....			4,651 51
HODGE AVENUE—			
Balance to credit January 1, 1881.....		621 65	
Balance.....			621 65
HEMLOCK STREET—			
Balance to credit January 1, 1881.....		395 73	
Balance.....			395 73
HERMAN STREET DAMAGES—			
Overdrawn January 1, 1881.....		76 48	
Receipts ..	2,267 85		
Disbursements.....	1,014 00	1,253 85	
Balance.....			1,177 37

ISABELLA STREET GRADING—			
Balance to credit January 1, 1881.....		\$151 63	
Disbursements.....	\$527 40		
Receipts.....	471 67	55 73	
Balance.....			\$95 90
IONA STREET FUND—			
Balance to credit January 1, 1881....		149 00	
Disbursements.....	380 61		
Receipts.....	283 28	97 33	
Balance.....			52 27
INFIRMARY FUND—			
Balance to credit January 1, 1881.....		18,813 10	
Receipts from County Treasurer.....	17,199 46		
Receipts from J. Blum, Clerk.....	2,131 54		
Receipts from City Clerk.....	3,961 00		
	23,292 00		
Disbursements.....	39,814 51	16,522 51	
Balance.....			2,290 59
INTEREST FUND—			
Balance to credit January 1, 1881.....		21,560 90	
Disbursements.....	395,065 83		
Receipts.....	382,512 61	13,153 22	
Balance.....			8,407 68
JUNCTION STREET—			
Balance to credit January 1, 1881.....		5,227 83	
Balance.....			5,227 83
KINSMAN STREET—			
Balance to credit January 1, 1881.....		5,070 99	
Disbursements.....	63,866 57		
Receipts.....	50,884 50	3,982 07	
Balance.....			1,688 92
LORAIN STREET—			
Balance to credit January 1, 1881.....		1,803 95	
Disbursements.....	2,477 13		
Receipts.....	693 25	1,783 88	
Balance.....			20 07
LORAIN STREET DAMAGES—			
Receipts.....		118 61	
Balance.....			118 61

LIGHTING FUND—			
Balance to credit January 1, 1881.....		\$4,533 79	
Receipts from County Treasurer.....	\$98,823 84		
Receipts from other sources.....	2 33		
	93,826 17		
Disbursements.....	91,781 96	2,044 22	
Balance.....			\$6,578 01
MARKET FUND—			
Balance to credit January 1, 1881.....		1,265 27	
Receipts from premium and rents.....	33,887 90		
Receipts from other sources.....	82 43		
	33,980 33		
Disbursements.....	28,624 54	5,355 79	
Balance.....			6,621 06
MONUMENTAL PARK REPAVING—			
Receipts.....		993 58	
Balance.....			993 58
NORTH WOODLAND AVENUE—			
Balance to credit January 1, 1881.....		642 15	
Balance.....			642 15
ONTARIO STREET—			
Balance to credit January 1, 1881.....		300 00	
Balance.....			300 00
OLD RIVER STREET—			
Receipts.....		1,080 02	
Balance.....			1,080 02
PARK FUND—			
Balance to credit January 1, 1881.....		2,481 33	
Disbursements.....	8,947 09		
Receipts from County Treasurer.....	7,217 21	1,729 88	
Balance.....			751 45
POLICE COURT FUND—			
Balance to credit January 1, 1881.....		1,795 08	
Receipts from W. Baxter, Clerk.....	14,526 95		
Receipts from W. D. Patterson, Supt.....	3,568 75		
	18,120 70		
Disbursements.....	10,918 34	7,202 36	
Balance.....			8,907 44

POLICE FUND—			
Balance to credit January 1, 1881.....		\$5,798 49	
Receipts from Thomas King, Sec'y.....	\$286 00		
Receipts from City Clerk.....	6,051 00		
Receipts from County Treasurer.....	122,062 72		
	128,029 72		
Disbursements.....	133,440 40	4,410 68	
Balance.....			\$1,382 81
PROSPECT STREET REPAVING—Erie to Perry street—			
Balance to credit January 1, 1881.....		2,494 48	
Receipts.....	5,930 11		
Disbursements.....	5,814 00	116 11	
Balance.....			2,610 50
PAYNE AVENUE OPENING—			
Balance to credit January 1, 1881.....		98,020 88	
Receipts.....	114,313 24		
Disbursements.....	66,899 04	47,414 20	
Balance.....			145,435 08
PERRY STREET PAVING—			
Balance to credit January 1, 1881.....		1,702 38	
Receipts.....	2,068 36		
Disbursements.....	1,945 00	123 36	
Balance.....			1,825 74
PROSPECT STREET PAVING—Perry St. to Willson avenue—			
Balance to credit January 1, 1881.....		2,285 32	
Balance.....			2,285 32
PELTON PARK—			
Balance to credit January 1, 1881.....		1,062 43	
Receipts.....	18,043 04		
Disbursements.....	16,666 66	1,376 28	
Balance.....			2,468 81
PEARL STREET REPAVING—			
Receipts.....		7,753 68	
Balance.....			7,753 68
RUSSELL AVENUE OPENING—			
Overdrawn January 1, 1881.....		551 28	
Receipts.....	807 23		
Disbursements.....	169 98	687 25	
Balance.....			85 97

SEWER DISTRICT NO. 2—			
Overdrawn January 1, 1881.....		\$1,040 76	
Receipts	\$8,586 07		
Disbursements.....	7,999 00	1,587 07	
Balance.....			\$566 31
SEWER DISTRICT NO. 4—			
Balance to credit January 1, 1881.....		2,439 19	
Disbursements.....		872 00	
Balance.....			1,567 19
SEWER DISTRICT NO. 5—			
Balance to credit January 1, 1881.....		904 02	
Receipts	10,080 00		
Disbursements	9,895 68	184 41	
Balance.....			1,088 43
SEWER DISTRICT NO. 6—			
Balance to credit January 1, 1881.....		768 05	
Balance.....			768 05
SEWER DISTRICT NO. 8—			
Balance to credit January 1, 1881.....		677 63	
Disbursements.....		6 43	
Balance			671 20
SEWER DISTRICT NO. 10—			
Balance to credit January 1, 1881.....		103 06	
Receipts	305 46		
Disbursements.....	200 00	105 46	
Balance.....			208 52
SEWER DISTRICT NO. 11—			
Balance to credit January 1, 1881.....		75 89	
Receipts	275 11		
Disbursements.....	200 00	75 11	
Balance.....			151 00
SEWER DISTRICTS NOS. 1 AND 2, E. C.—			
Balance to credit January 1, 1881.....		2,105 65	
Receipts	9,706 28		
Disbursements.....	9,588 18	118 10	
Balance.....			2,223 75
SEWER DISTRICT NO. 3, E. C.....			
Balance to credit January 1, 1881.....		205 22	
Balance.....			205 22

SPECIAL ROAD FUND—			
Balance to credit January 1, 1881		2,618 38	
Disbursements		7 62	
Balance			2,610 76
SUPERIOR STREET GRADING—			
Receipts		770 93	
Balance			770 93
SUPERIOR STREET REPAVING—			
Receipts		1,179 14	
Balance			1,179 14
SENECA STREET REPAVING—			
Receipts		1,199 47	
Balance			1199 47
STREET FUND—			
Balance to credit January 1, 1881		6,806 18	
Receipts from County Treasurer	\$61,346 36		
Receipts from repairs on streets	4,907 60		
Receipts from transfer from Market Fund	10,000 00		
Receipts from other sources	2,135 21		
	78,389 17		
Disbursements	73,411 38	4,977 79	
Balance			11,782 97
ST. PAUL STREET DAMAGES—			
Overdrawn January 1, 1881		25 71	
Receipts	932 79		
Disbursements	902 00	30 79	
Balance			5 08
SEYLER ALLEY—			
Balance to credit January 1, 1881		633 79	
Balance			633 79
SLATER STREET OPENING—			
Balance to credit January 1, 1881		3,804 67	
Disbursements	2,683 00		
Receipts	286 82	2,416 18	
Balance			1,448 49
SENECA STREET OPENING—			
Balance to credit January 1, 1881		11,559 54	
Disbursements	10,000 00		
Receipts	5,485 55	4,514 45	
Balance			7,045 00

STREET INTERSECTION FUND—			
Balance to credit January 1, 1881.....		\$22,509 86	
Disbursements.....	\$27,953 85		
Receipts.....	11,548 03	16,405 82	
Balance.....			\$6,103 84
ST. CLAIR STREET—			
Overdrawn January 1, 1881.....		581 20	
Receipts.....	9,683 04		
Disbursements.....	6,609 00	3,074 04	
Balance.....			2,402 84
SINKING FUND—			
Receipts.....		222,817 16	
Disbursements.....		222,025 45	
Balance.....			791 71
SANITARY FUND—			
Balance to credit January 1, 1881.....		47 25	
Receipts from County Treasurer.....	18,043 04		
Receipts from W. H. Farrand, Sec'y.....	1,993 00		
	20,036 04		
Disbursements.....	16,044 44	3,991 60	
Balance.....			4,038 85
TOD STREET—			
Balance to credit January 1, 1881.....		646 48	
Receipts.....		57 03	
Balance.....			703 51
UNIVERSITY STREET DAMAGES—			
Balance to credit January 1, 1881.....		258 18	
Balance.....			258 18
VEGA AVENUE—			
Balance to credit January 1, 1881.....		144 40	
Receipts.....	289 28		
Disbursements.....	26 34	262 94	
Balance.....			407 34
VIADUCT FUND—			
Balance to credit January 1, 1881.....		1,022 26	
Disbursements.....		94 50	
Balance.....			927 76

VIADUCT SINKING FUND—			
Balance to credit January 1, 1881.....		\$1,209 25	
Receipts from County Treasurer.....	\$3,008 61		
Receipts from rents.....	230 00		
Receipts from sale of land.....	605 00		
	4,443 61		
Disbursements.....	5,575 11	1,131 50	
Balance.....			77 75
WEDDELL STREET--			
Balance to credit January 1, 1881.....		731 96	
Balance.....			731 96
WARNER STREET—			
Overdrawn January 1, 1881.....		82 50	
Receipts.....	1,722 64		
Disbursements.....	1,461 00	261 64	
Balance.....			179 14
WOODLAND HILLS AVENUE—			
Balance to credit January 1, 1881.....		40 56	
Receipts.....	6,456 25		
Disbursements.....	6,172 00	284 25	
Balance.....			324 81
WOODLAND HILLS AVE. DAMAGES—			
Overdrawn January 1, 1881.....		247 56	
Receipts.....	4,835 88		
Disbursements.....	4,165 03	679 95	
Balance.....			432 39
WONDLAND AVENUE REPAVING—			
Receipts.....		8,589 86	
Balance.....			8,589 86
FIREMEN'S RELIEF FUND—			
Receipts from County Treasurer.....		1,975 00	
Balance.....			1,975 00

WATER WORKS FUND—			
Balance to credit January 1, 1881.....		\$48,559 09	
Receipts from H. C. Hawkins, Sec'y....	\$240,057 42		
Disbursements.....	222,578 41	17,479 01	
Balance.....			\$66,088 70
			<u>442,677 24</u>
Jan. 1, 1882. Balance, cash on hand.....			<u>\$234,842 53</u>

Respectfully submitted,
 S. T. EVERETT,
 CITY TREASURER.

ANNUAL REPORT
OF THE
SINKING FUND
COMMISSIONERS,
OF THE
CITY OF CLEVELAND,

FOR THE FISCAL YEAR ENDING DEC. 31, 1881.

REPORT OF THE SINKING FUND COMMISSIONERS.

To the Honorable City Council of Cleveland :

The Sinking Fund Commissioners in compliance with law
submit their report for the year 1881.

FIRST

SINKING FUND OF 1862,

TWENTIETH ANNUAL REPORT.

The gross income for the year is.....	\$101,546 36
The expense for the year is.	650 00
Leaving the net income.....	<u>\$100,896 36</u>

CASH RECEIPTS.

1881.

Jan.	15—Quarterly dividend on \$200,000 stock N. Y. C. R'y 2 per cent.	\$ 4,000 00
Feb.	1—Semi-annual dividend on \$330,000 stock L. S. & M. S. R'y 4 per cent.	13,200 00
April	1—Semi-annual interest on \$193,000 L. S. & M. S. R'y 7 per cent bonds.....	6,755 00
	Semi-annual interest on \$40,000 Cleveland City 7 per cent bonds.....	1,400 00
	Semi-annual dividend on \$50,000 stock K. A. & G. R. Railroad 3 per cent.....	1,500 00
	15—Quarterly dividend on \$200,000 stock N. Y. C. R'y 2 per cent.....	4,000 00
May	1—Quarterly dividend on \$330,000 stock L. S. & M. S. R'y 2 per cent.....	6,600 00

June	1—Semi-annual interest on \$52,000 L. S. & M. S. R'y 7 per cent bonds.....	1,820 00
	Semi-annual interest on \$250,000 C. & N. W. R'y 7 per cent bonds.....	8,750 00
	Semi-annual interest on \$100,000 C. & A. Bridge Co. 7 per cent bonds.....	3,500 00
	15—Semi-annual interest on \$50,000 Valley R'y 7 per cent bonds.....	1,750 00
July	1—Semi-annual interest on \$10,000 J. & F. Rail- road, 7 per cent bonds.....	350 00
	Jamestown & F. Railroad bonds matured.....	9,000 00
	15—Quarterly dividend on \$200,000 stock N. Y. C. R'y 2 per cent.....	4,000 00
August	1—Quarterly dividend on \$330,000 stock L. S. & M. S. R'y 2 per cent.....	6,600 00
Oct.	1—Semi-annual interest on \$193,000 L. S. & M. S. R'y 7 per cent bonds.....	6,755 00
	Semi-annual interest on \$40,000 Cleveland City 7 per cent bonds.....	1,400 00
	Semi-annual dividend on \$50,000 stock K. A. & G. R. Railroad, 3 per cent.....	1,500 00
	15—Quarterly interest on \$200,000 stock N. Y. C. R'y 2 per cent.....	4,000 00
	22—Sale 380 shares stock K. A. & G. R. Railroad, at par.....	38,000 00
Nov.	1—Quarterly dividend on \$330,000 stock L. S. & M. S. R'y 2 per cent.....	6,600 00
Dec.	1—Semi-annual interest on \$52,000 L. S. & M. S. R'y 7 per cent bonds.....	1,820 00
	Semi-annual interest on \$250,000 C. & N. W. R'y 7 per cent bonds.....	8,750 00
	Semi-annual interest on \$100,000 C. & A. Bridge Co. 7 per cent bonds.....	3,500 00
	15—Semi-annual interest on \$50,000 Valley R'y 7 per cent bonds.....	1,750 00
1882.		
Jan.	1—Semi-annual interest on \$1,000 J. & F. railroad 7 per cent bonds.....	35 00
	Sale 120 shares stock K. A. & G. R. Railroad, at 101½.....	12,180 00
	Interest on deposits for the year.....	1,244 38
	Cash on hand Jan, 1881 as per report.....	21,265 53
		<hr/>
		\$182,024 91

CASH EXPENDITURES

1881.

Sept.	1—Payment upon requisition of City Auditor to re- deem Cleveland City bonds.....	\$144,492 87
	Express charges on coupons for the year.....	33 02
	Expenses for the year.....	650 00

1882.

Jan.	Temporary loan to Viaduct Sinking Fmnd.....	970 00
	Cash on deposit Jan. 3, 1882.....	35,879 02

 \$182,024 91

The following items constitute the Sinking Fund, January
3d, 1882.

3,300 Shares stock L. S. & M. S. R'y par value.....	\$ 330,000 00
2,000 Shares stock N. Y. C. R'y par value.....	200,000 00
Cleveland City House Correction, 7 per cent bonds, par value	40,000 00
L. S. & M. S. R'y 7 per cent bonds par value.....	245,000 00
C. & N. W. R'y " " " "	250,000 00
Chicago & Atchison Bridge Co., 7 per cent bonds, par value,	100,000 00
Valley Railway, 7 per cent bonds, par value.....	50,000 00
Jamestown & F. railroad, 7 per cent bonds, par value.....	1,000 00
Temporary loan to Viaduct Sinking Fund.....	970 00
Cash on deposit.....	35,879 02
	<hr/>
	\$1,252,849 02

SECOND.

VIADUCT SINKING FUND.

THIRD ANNUAL REPORT.

The income for the year is.....\$ 23,836 58

CASH RECEIPTS.

1881.

April	1—Semi-annual dividend on \$50,000 Stock K. A. & G. R. Railroad, 3 per cent.....	\$ 1,500 00
June	1—Semi-annual interest on \$25,000 Cin. & I. R'd 7 per cent bonds.....	875 00

June	10—From City Treasurer.....	4,008 67
	15—Semi-annual interest on \$265,000 Valley R'y 7 per cent bonds.....	9,275 00
Sept.	8—From City Treasurer.....	1,566 44
Oct.	1—Semi-annual dividend on \$50,000 stock K. A. & G. R. R'd 3 per cent.....	1,500 00
Dec.	1—Semi-annual interest on \$25,000 Cin. & I. R'd 7 per cent bonds.....	875 00
	15—Semi-annual interest on \$265,000 Valley R'y 7 per cent bonds.....	9,275 00
1882.		
Jan.	—Interest on deposits for the year.....	538 08
	Temporary loan of Sinking Fund of 1862.....	970 00
	Cash on hand as per last report.....	19,798 98
		<hr/>
		\$50,182 17

CASH EXPENDITURES.

Nov,	22—Purchase 380 shares stock K. A. & G. R. Railroad at par.....	\$38,000 00
	Express charges on Coupons for the year.....	1 50
1882.		
Jan.	—Purchase 120 shares stock K. A. & G. R. Railroad at 101½.....	12,180 00
	Cash on hand January 3, 1882.....	67
		<hr/>
		\$50,182 17

The following items constitute the Viaduct Sinking Fund.
January 3d, 1882.

Valley Railway 7 per cent bonds par value.....	\$265,000 00
Cin. & Ind. railroad 7 per cent bonds par value.....	25,000 00
Stock Kalamazoo, Allegan & Grand Rapids Railroad par value	100,000 00
Cash on deposit.....	67
	<hr/>
	\$390,000 67
Less temporary loan.....	970 00
	<hr/>
	\$389,030 67

THIRD.

GENERAL SINKING FUND.

THIRD ANNUAL REPORT.

CASH RECEIPTS.

June 10—From City Treasurer.....	\$ 69,166 77
Sept. 8— “ “ “	45,963 30
Interest on deposits for the year.....	491 13
Cash on deposit at last report.....	5,507 36
	<hr/>
	\$121,128 56

CASH EXPENDITURES.

July 30—Paid City Treasurer to redeem Cleveland City bonds \$	74,600 00
Sept. 8— “ “ “ “ “ “ “	25,400 00
Nov. 1— “ “ “ “ “ “ “	6,000 00
Cash on deposit January 3d, 1882.....	15,128 56
	<hr/>
	\$128,120 56

The assets of the General Sinking Fund are

Cash on deposit...:	\$15,128 56
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FOURTH.

RECAPITULATION OF ASSETS.

Sinking Fund of 1862 par value.....	\$1,252,849 02
Viaduct Sinking Fund “	389,030 67
General Sinking Fund “	15,128 56
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	\$1,657,008 25

Cleveland City bonds redeemed from Sinking Fund of 1862.

Water Works bonds.....	\$ 625,000 00
“ “ “ held by Commissioners and cancelled in 1881.....	300,000 00
Other Cleveland City bonds.....	462,252 82
	<hr/>
	\$1,387,252 82

Respectfully submitted,

H. B. PAYNE,	}	Sinking Fund
WM. BINGHAM,		
CHARLES HICKOX,		Commissioners.
J. H. WADE,		
S. T. EVERETT,		

CLEVELAND, January 3, 1882.

ANNUAL REPORT
OF THE
CITY CLERK,
OF THE
CITY OF CLEVELAND,

For the Year Ending December 31, 1881.



CITY CLERK'S REPORT.

To the Honorable City Council:

GENTLEMEN:—I have the honor herewith to transmit a report of the business transacted in this department during the year ending December 31st, 1881:

LICENSES.

There have been issued 8,191 licenses of all classes, for which the sum of \$16,487.75 has been received and paid into the City Treasury to the credit of the funds, as prescribed by ordinances, as follows:

To the credit of the General fund	-	\$4,147 75
" " " " Infirmary fund	-	4,015 00
" " " " Police fund	-	6,051 00
" " " " Armory fund	-	1,451 00
" " " " Lighting fund	-	2 00
" " " " Street fund	-	821 00
		<hr/>
Total	-	\$16,487 75

The previous year 5,868 licenses were issued, the total collections amounting to \$12,747.53, a marked increase which applies to all the several classes, the most noticeable being the "Dog license," the issue for 1880 being 3,371, and for 1881, 5,392.

The number of licenses issued and the amount collected in each class is shown by the following exhibit:

CLASS.	NUMBER.	AMOUNT.
Exhibitions	46	\$ 508 00
Peddlers.....	1,237	4,015 00
Cabs, carriages, etc	126	628 00
Street cars.....	165	821 00
Drays, wagons, etc	389	778 00
Drivers	48	48 00
Pawn Brokers... ..	15	750 00
Intelligence offices.....	4	40 00
Dogs.....	5,392	6,061 00
Ferries	4	40 00
Public wharves.....	29	1,189 50
Newsboys and bootblacks	649	162 25
Armory leases	84	1,451 00
Total.....	8,191	\$16,487 75

A comparison of the license system of this with other cities shows a marked liberality in this direction on the part of Cleveland.

This source of revenue might well be largely increased by providing by ordinance for the license of certain vocations, which by statute the City Council is empowered to do, in addition to those already licensed.

The entire license system of the city should receive the attention of your Honorable Body.

PRINTING, BLANK BOOKS, STATIONERY, ETC.

The total expenditures for printing, blank books, stationery supplies for the year has been \$6,021.48.

The following exhibit will show the amount as charged to each department, and the nature of the supplies furnished :

CITY CLERK'S REPORT.

171

Departments.	Blank Books.	Printing.	Paper and Envelopes.	Stationery Sundries.	Lithograph- ing.	Engineer's Supplies.	Total.
Mayor.....	.....	\$ 97 82	\$ 50	.....	\$ 4 38	.....	\$ 102 20
Board of Improvements	\$ 89 03	18 45	27 10	\$ 5 15	5 00	.....	154 73
Fire Department	180 58	133 81	15 37	13 51	17 90	.....	313 17
Police Department.....	105 04	213 06	48 37	74 98	5 25	.....	448 70
Police Court Department.....	286 04	102 28	45 12	30 95	10 75	.....	545 12
House of Refuge and Correction.....	147 40	106 97	13 86	17 50	.....	.....	284 73
Infirmiry Department.....	57 85	3 25	9 53	10 14	25 00	.....	165 23
Water Works Department.....	100 40	241 37	20 86	27 22	15 13	.....	404 46
City Auditor's Department.....	454 24	232 72	53 68	48 71	84 00	.....	873 35
City Treasurer's Department... ..	6 34	3 90	1 20	30 65	.....	.....	51 09
City Clerk's Department.	385 02	1,053 88	182 09	124 69	98 62	.....	1,854 10
City Solicitor's Department	24 61	28 13	9 70	28 79	14 50	.....	101 73
City Civil Engineer's Department.....	92 38	45 05	55 28	23 17	9 00	\$38 81	253 17
Street Commissioner's Department.....	15 82	2 00	7 40	13 70	.....	.....	38 92
<i>Carried forward.....</i>	\$1,894 25	\$2,370 97	\$ 489 59	\$ 456 16	\$289 53	\$28 81	\$5,028 81

Departments.	Blank Books.	Printing.	Paper and Envelopes.	Stationery Sundries.	Lithograph- ing.	Engineer's Supplies.	Total.
<i>Brought forward</i>	\$1,894 25	\$2,370 97	\$ 499 50	\$456 16	\$299 53	\$28 31	\$5,528 81
Health Department...	207 41	219 34	45 35	6 95	.....	.....	479 05
Cemetery Department .....	.....	1 50	1 25	76	.....	.....	3 51
Assessing Boards.....	15	.....	20	1 75	.....	.....	2 10
Hay Weighers.....	1 50	.....	.....	20	.....	.....	1 70
Markets.....	18	.....	.....	2 00	.....	.....	2 18
Codifier of Ordinances.....	.....	.....	1 71	2 42	.....	.....	4 13
Total	\$2,103 49	\$2,591 81	598 10	\$470 24	\$299 53	\$28 31	\$9,021 45

ADVERTISING.

The following is a statement of the cost of advertising for the year:

Department.	Amount.
Mayor's Department.....	\$ 718 12
City Clerk's Department.....	5,888 11
Auditor's Department.....	194 83
City Solicitor's Department.....	19 00
City Treasurer's Department.....	28 87
City Civil Engineer's Department.....	305 03
Board of Improvements.....	231 06
Water Works Department...	185 54
Cemetery Department.....	18 85
Police Department.....	31 58
Fire Department	38 46
Park Department.....	6 33
Infirmary Department... ..	116 54
Health Department	59 76
Workhouse Department... ..	41 27
Markets.....	3 33
Total.....	\$7,884 48

MISCELLANEOUS.

There have been introduced into council and variously disposed of during the year 204 petitions, 668 communications, 943 resolutions and 333 ordinances.

Two Trustees resigned during the year, to-wit: J. H. Bradner, as Trustee from the Tenth ward resigned April 8th, 1881; Mr. Chas. W. Denison was elected April 21st, 1881 to fill the vacancy, and was qualified April 25th. Mr. John C. Ferbert, as Trustee from the Ninth ward resigned September 5th, 1881, Mr. A. T. Van Tassel being elected to fill the vacancy September 19th, 1881, and was qualified September 30th, 1881.

Mr. W. W. Phillips was elected July 25th, 1881, and was qualified the same day, having been elected to fill an unexpired term occasioned by the death of J. Y. Black, trustee from the Fifteenth ward.

OBITUARY.

A. K. Spencer, Esq., Trustee from the Sixteenth ward, died February 21st, 1881.

At a meeting of the City Council held February 21st, 1881, the following resolutions of respect were adopted:

WHEREAS the announcement of the sudden and unexpected death of Mr. A. K. Spencer, Trustee from the Sixteenth ward, brings to each of us, his colleagues in this body, a sense of the uncertainty of life, and to many of us, who have been closely associated with him in business and socially, a feeling of keen sorrow and sincere regret; and,

WHEREAS, We recognize in his death the loss of a fellow member, whose great abilities exercised in its behalf were of incalculable value to the city, and whose sterling qualities of head and heart displayed in all his relations of life, either in his business connections, his administration of public affairs, or his social intercourse won for him the respect and confidence of all men and endeared him to his intimate associates; therefore,

RESOLVED, That as a mark of respect for the memory of deceased Trustee the proceedings of this meeting be spread at large upon the journal, and

RESOLVED, That this City Council does hereby tender to the family of our deceased fellow member our sincere and heartfelt sympathies in their great bereavement, and that the City Clerk be and he is hereby directed to transmit to the family an engrossed copy of these resolutions, and

RESOLVED, That as a further mark of respect to the deceased, that this Council attend the funeral in a body.

James Y. Black, Esq., Trustee from the Fifteenth ward, died July 10th, 1881.

At a meeting of the Council, held July 11th, 1881, the following resolutions of respect were adopted:

WHEREAS, We have been called upon yet again to submit to the decree of an inscrutable Providence in the demise of James Y. Black, Trustee from the Fifteenth ward, a fellow member of this body, who by his manifest endeavor on all occasions to be governed in the discharge of his public trust by an honest conviction of right, won for himself the respect of his colleagues, and whose practical sympathy for earnest championship of the claims and rights of the laboring man and of the honest poor man upon the floor of this Council, and his well known character as a citizen and a business man of unimpeached integrity, comprehensive liberality and genial kindness, entitle him to that consideration and regard which an appreciative public bestows upon a faithful servant and a good citizen; therefore, be it

RESOLVED, That in recognition of his worth and his ability as a Trustee, of his high character as a private citizen and as a mark of respect to his memory that these proceedings be spread at large upon the journal of the Council, and that a duly certified copy hereof be transmitted to the family of the deceased, and,

RESOLVED, That this Council will attend the funeral in a body, and, as a further mark of respect,

RESOLVED, That this Council now adjourn.

Respectfully submitted,

W. H. ECKMAN,
City Clerk.

ANNUAL REPORT
OF THE
CITY SOLICITOR
OF THE
CITY OF CLEVELAND,
FOR THE
YEAR ENDING DECEMBER 31, 1881.

CITY SOLICITOR'S REPORT.

To the Honorable City Council:

GENTLEMEN:—I herewith submit the report of this department for the year ending December 31st, 1881. The following tables will indicate to you the amount and character of the litigation in which the city has been and is now involved, and the disposition which has been made of those cases finally determined.

Upon my accession to office on the fifteenth day of April, 1881, there were pending in the several State and United States Courts 224 cases in which the city was a party. Of the facts upon which all of these cases were based I, of course, knew nothing. To prepare all these cases and be ready for trial when they were reached in the courts was in itself no easy task, and great credit is due to my assistants, Mr. W. E. Sherwood and Mr. H. C. Bunts, for the success the city has met with in its litigation during the past year.

Mr. Weh, ex-assistant solicitor, was of great aid to me in the preparation and trial of a number of cases which were pressed on for hearing during the spring and summer terms of the courts.

Mr. Weh's term of service expired on the 15th day of July, 1881, at which time he was succeeded by Mr. W. E. Sherwood, who has rendered valuable service to the city and proved himself an able and efficient officer.

During the fall term there were thirty-one cases disposed of, of which but one was adjudged against the city, and that was one in which an injunction was sought to restrain the collection of an illegal assessment, and the question involved

had been decided by the Supreme Court of the State against the city, in 1878, in the case of Kelly vs. the City of Cleveland. In addition to the labor of the preparation and trial of these cases there has devolved upon this department the investigation of many questions of great importance to the city which were referred for a report by the Council and the various boards and city officers. The work thus received in this office has been quite sufficient to keep one person employed the entire time during office hours.

The amount and source of the money collected by the City Solicitor during the portion of the year he has had charge of the office is as follows:

From the Brooklyn Street R. R. Co., on account of a judgment rendered against it in the Court of Common Pleas in the case of the City vs. the Brooklyn St. R. R. Co.....	\$2,000.00
From General Jas. Barnett in full settlement of the case of M. Barnett vs. the City of Cleveland pending in the District and Common Pleas Courts of this county in reference to assessments upon the property of the said Barnett on account of the improvement of Seneca street	1,687.09
From R. Way Smith, on account of rent of room in the City Hall,	\$50.00
From C. H. Babcock, a Justice of the Peace, on account of a judgment against Brooks & Hawkins, collected by him, . .	\$30.00
Total amount,	\$3,767.09

The several sums above named have been deposited with the City Treasurer to the credit of the proper funds and I hold the Treasurer's receipts therefor.

Respectfully submitted,

GEO. S. KAIN,
City Solicitor.

REPORT OF THE CITY'S LITIGATION FOR THE YEAR ENDING DECEMBER 31, 1881.

CASES PENDING JANUARY 1, 1881.

In the Supreme Court of the State,	8
In the District Court of Cuyahoga county,	19
In the Common Pleas Court,	195
In the United States Circuit Court,	4
In the Magistrates' Courts,	1
Total,	227

CASES COMMENCED DURING THE YEAR 1881.

In the Supreme Court of the State,	2
In the District Court of Cuyahoga county,	15
In the Common Pleas Court,	30
In the United States Circuit Court,	0
In the Probate and Magistrates' Courts,	33
Total,	80

CASES DISPOSED OF DURING THE YEAR 1881.

In the Supreme Court of the State,	2
In the District Court of Cuyahoga county,	13
In the Common Pleas Court,	75
In the United States Circuit Court,	0
In the Probate Court,	15
In the Magistrates' Courts,	17
Total,	122

CASES PENDING JANUARY 1, 1882.

In the Supreme Court of the State,	8
In the District Court of Cuyahoga county,	21
In the Common Pleas Court,	150
In the Circuit Court of the United States,	4
In the Probate and Magistrates' Courts,	2
Total,	185

Of the cases commenced during the year 1881, twenty-seven were suits in which money compensation was claimed for injuries to property and person through the alleged fault of the city. The amount claimed in these was as follows:

In 23 cases for injury to property,	\$42,996.53
In 4 cases for injury to person,	56,155.00
Total,	<u>\$99,151.53</u>

Of the cases pending on the 1st day of January, 1881, one hundred and thirty-one (131) were suits in which money compensation was claimed for injuries to the property and person through the alleged fault of the city. The amount claimed in these cases was distributed as follows:

In 119 cases for injury to property the amount claimed was,	\$263,622.98
In 12 cases for injury to person the amount claimed was,	78,000.00
Total,	<u>\$341,622.98</u>

The total amount of damages claimed for injury to the property and person of litigants through the alleged fault of the city, in cases pending on the 1st day of January, 1881, and commenced during said year, is as follows, to-wit:

In 142 cases for injury to property,	\$306,620.32
In 16 cases for injury to person,	134,154.19
Total,	<u>\$440,774.51</u>

SUITS FOR THE CITY.

The number of cases pending on the first day of January, 1881, and commenced during said year, brought by the city, was twenty-two. The amount involved in these cases was \$144,440.31.

SUITS TO RECOVER BACK TAXES AND ASSESSMENTS.

There were pending on the 1st day of January, 1881, and commenced during the said year, eighty-nine cases against the former and present County Treasurer, to recover back taxes and assessments collected by them for the city, involving the following amounts :

In 82 cases pending January 1, 1881,	\$22,492.92
In 7 cases commenced during 1881,	1,470.39
Total,	<u>\$23,962.71</u>

Of the said eighty-nine cases there were disposed of during the year 1881 twenty one.

The amount claimed in these cases, exclusive of the Caleb

Morgan case was,	\$ 9,097.82
The amount recovered, exclusive of the Morgan case was,	\$ 736.04
The amount claimed in the Morgan case, including interest, was,	4,818.85
The amount recovered in said Morgan case was,	4,818.85
The total amount claimed was,	\$13,916.67
The total amount recovered was,	\$ 5,554.89

**AMOUNT SOUGHT TO BE RECOVERED IN CASES AGAINST
AND FOR THE CITY,**

The amount sought to be recovered in the various suits for and against the city, pending January 1, 1881, and commenced during that year, exclusive of injunction suits to restrain the collection of taxes and special assessments levied by the city, ejectment suits wherein only real property was sought to be recovered, appropriation suits, and other suits wherein no pecuniary compensation is demanded, is as follows:

In cases pending January 1, 1881:

Against the city,	\$341,622.98
For the city,	144,440.31
	<hr/> \$486,063.29

In cases commenced during 1881:

Against the city,	\$ 99,151.53
For the city,	
	<hr/> \$ 99,151.53

Total,	<hr/> \$585,214.82
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ANALYSIS OF CASES DISPOSED OF DURING THE YEAR 1881.

The following named cases embrace all cases disposed of during the year 1881, in which damages were sought to be recovered for injuries to the property and person of the complainants through the alleged fault of the city. These cases do not include suits for back taxes, and are twenty six in number.

Amount claimed in the above disposed of cases:

In 21 cases for damage to property,	\$33,118.62
In 5 cases for damage to person,	29,000.00
	<hr/>
Total amount claimed,	\$62,118.62
Amount recovered for damage to property,	\$560.81
Amount recovered for damage to person, . . . . .	.....
	<hr/>
Total amount recovered,	\$560.81

The amount thus recovered was distributed through seven cases, as follows :

TITLE OF CASE.	AMOUNT CLAIMED.	AMOUNT RECOVERED.
St. Clair St. Gravel R. Co. v. City, (this case is now pending in District Court on error).	\$1,000 00	\$ 301 50
O'Malley v. City.....	22 50	22 50
Total.....	\$1,022 50	\$ 324 00

The remaining five of these cases were cases before magistrates, wherein a recovery of \$236.81 was had. The largest amount recovered in any one of these cases was \$96.56.

SPECIAL MENTION.

A brief statement is here given, showing the nature and disposition of some of the cases disposed of during the past year.

In the case of *Brooker v. The City*, an action brought in the Common Pleas Court, the plaintiff sued for \$5,000 damages, which he claimed resulted by reason of water flowing through Superior street, in consequence of which said street was washed out to a depth of fifteen feet in front of the plaintiff's premises, which abut thereon, and the access to the plaintiff's land thereby cut off; that the city was by law bound to keep its streets in good condition and repair; that by reason of its neglect so to do in this instance the plaintiff had been damaged to the extent above mentioned.

Judgment in this case was rendered in favor of the city.

In the case of *Conner v. The City*, an action brought in the Court of Common Pleas, it appeared that the plaintiff, while serving out a sentence in the Workhouse, met with an injury while operating one of the brush manufacturing machines. The plaintiff claimed that the said machine was defective and insufficient, and that the officers and agents of the city in providing and compelling the plaintiff to use said machine, were guilty of gross negligence; whereupon the plaintiff prayed judgment against the city for five thousand (\$5,000) dollars, the amount of his damages in the premises.

Judgment in this case was also in favor of the city.

In the case of *Gannon v. The City, et al*, an action brought in the Common Pleas Court, the plaintiff alleged that while passing by the Armory building on Champlain street, belonging to the city, while the same was in process of erection, one of the workmen engaged in placing bricks on the wall of said building negligently allowed a brick to drop from the said wall and fall upon the plaintiff's head; that in consequence of the injuries thus received he was damaged to the extent of \$10,000, for which he asked judgment. It was contended among other

things on the part of the city, that if liability existed anywhere, it was on the part of the contractor who was engaged in constructing the building for the city.

The Court instructed the jury, that unless they found that the relation of master and servant existed between the city and the contractor, the city would not be liable. The jury returned a verdict in favor of the city.

In the case of Caleb Morgan v. M. G. Watterson, Treasurer, a suit brought in the Common Pleas Court, to recover back a portion of the original assessment paid under protest, for the opening of Willson avenue, between Sawtell avenue and Broadway, this assessment having been declared illegal and void by the courts. The amount recovered in this action was four thousand eight hundred and eighteen and eighty-five one hundredths (\$4,818.85) dollars. There has been a re-assessment made for this improvement, and upon a hearing in a suit brought to enjoin the collection thereof, the same was held by the Court to be valid. The money paid under the original assessment, and recovered back in actions of this kind, will, therefore, under the re assessment be again collected.

In the matter of the City Infirmary Directors v. The County Commissioners, involving the question as to the liability of the county to reimburse the city for aid furnished by it to non-resident paupers, and submitted to Judges Hamilton and McKinney for decision, it was held that such liability existed, and that the county was bound to reimburse the city.

In the case of Cohen v. The City, an action brought in the Common Pleas Court, the plaintiff, who owned property on Superior street hill, claimed that by reason of the building of the Viaduct by the city he had been damaged to the extent of \$20,000. It was claimed by him that, in consequence of the erection of the Viaduct, trade had been diverted from the said locality, and as a result of which his property had depreciated in value to his damage, as aforesaid.

This case was tried before Judge Prentiss and a jury, and a verdict rendered in favor of the city. This case has been taken to the District Court on error, and will probably be reached and a hearing had therein at the next term of said Court.

In the case of Powers v. The City, an action brought in the Common Pleas Court, the plaintiff as administratrix sued the city for \$10,000. It appeared that on or about the 7th day of November, 1879, at about the hour of 9 p. m., the plaintiff's husband, a young man, walked off of the east abutment of the Viaduct while the draw was swung and was instantly killed. It was claimed by the plaintiff that the protection gates across the said abutment were insufficient, and that the city was negligent and liable for the said accident. In the trial of this case the jury disagreed, and the same has not yet been finally disposed of.

In the case of Raymond v. The City of Cleveland, decided by the District Court, the question as to the validity of the re assessment to pay a portion of the cost and expense for the opening of Bond street was involved, the first assessment having been declared invalid by the Supreme Court of the State in the case of Chamberlain v. The City. The District Court held the assessment legal, and the case has been taken by the plaintiff to the Supreme Court for final decision, where the same is now pending.

NATURE OF THE CASES DISPOSED OF DURING 1881.

The nature of the proceedings in the disposed of cases during the year ending January 1, 1882, was as follows.

Actions to recover back assessments.....	21
Actions to enjoin collection of taxes and assessments.....	17
Damage cases for injury to property.....	10
Damage cases for injury to person....	6
Proceedings in foreclosure.....	5
Actions where city was garnishee....	7
Habeas corpus cases.....	7
Proceedings by R. R. Co.s to appropriate city property.....	5
Criminal actions against policemen.....	5
Error cases from Police Court.....	5
Actions on contract....	5
Actions to set aside tax sale.....	3
Actions to subject money in hands of city.....	2
Actions to collect assessments.....	2
Action to collect St. R. R. Co.'s share of paving tax.....	1
Action on garnishee process.....	1

Injunction in St. R. R. matter.....	1
Action on account by city.....	1
Action in replevin.....	1
Action for wages.....	1
Proceedings in aid of execution.....	1
Proceedings on writ of mandamus.....	3
Proceedings in appropriation by city.....	1
Proceedings upon application to sell property.....	1
Total number of cases disposed of during 1881.....	122

NATURE OF CASES PENDING JANUARY 1, 1882.

The nature of the proceedings in the cases pending January 1, 1882, is as follows:

Actions to recover back assessments.....	68
Action to enjoin the collection of assessments.....	46
Damage cases for injury to property.....	15
Error cases from Police Court.....	5
On attested claims.....	2
Foreclosure proceedings.....	7
Suits on awards.....	4
Actions on contracts.....	7
Actions for false imprisonment.....	7
Damage cases for injury to person.....	4
Actions by city to recover from St. R. R. Co. paving tax.....	2
Suits on bond.....	2
Actions for rent.....	2
Proceedings on writ of mandamus.....	1
Proceedings in partition.....	1
Action to set aside tax sale.....	1
Action on replevin.....	1
Actions for wages.....	2
Action in ejectment.....	1
Action for extra services.....	1
Action on tax title.....	1
Action to collect assessments.....	1
Action to subject land.....	1
Action to recover dockage.....	1
Action relating to patented pavement.....	1
Action to subject money in hands of city.....	1
Total number of cases pending January 1, 1882.....	185

A GENERAL STATEMENT SHOWING THE EXTENT AND INCREASE OF THE CITY'S LITIGATION DURING THE PAST ELEVEN YEARS.

	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881
Cases pending at beginning of the year....	35	17	37	81	90	99	114	154	155	225	227
Cases commenced during the year....	28	59	90	79	98	109	125	98	240	105	80
Cases pending at the beginning of and commenced during the year.....	63	76	127	160	188	208	239	252	395	330	307
Cases disposed of during the year	43	39	46	70	87	94	85	97	170	108	122
Cases pending at the end of the year.....	17	37	81	90	99	114	154	155	225	222	185

ANNUAL REPORT
OF THE
CITY CIVIL ENGINEER,
OF THE
CITY OF CLEVELAND,
FOR THE
YEAR ENDING DECEMBER 31, 1881.

REPORT OF THE
CITY CIVIL ENGINEER.

To the Honorable Board of Improvements:

GENTLEMEN :—I respectfully submit the annual report of the City Civil Engineer's Department for the year ending December 31st, 1881. The total cost of all work done under the direction of this department during the year, is \$125,847.11. The above amount does not include the cost of repairs and maintainance of the city bridges, which for the year just ended amounts to \$6,075.86.

During the year 1877, Lower Central Way Bridge was built at a cost of about \$27,461.00, this bridge was built from a surplus then on hand in the bridge fund. The Viaduct was open to public travel in the fall of 1878, and the cost of running that bridge has been added to the expense of maintaining and operating city bridges, and the consequence is that no surplus has accumulated during the last three years. In the next two years, considerable work ought to be done in addition to the ordinary repairs, the north abutment of Columbus street bridge and the north pier of Seneca street bridge will both have to be rebuilt soon.

Upper Central Way draw bridge is a very light and frail concern, it is an iron structure, and was built for a draw of twenty-four feet, less opening, but has been increased in length twelve feet on each end, it now shows signs of weakness under the heavy and increasing traffic that has passed over it during the last two years, and in my opinion should be replaced by a new iron draw within a year or two. Swiss street bridge is also a very light structure, and should be filled up with earth

before the wooden piers now under it have to be replaced with new ones. Winslow street bridge, over the tracks of the N. Y. P. & O. R. R. should have new stone abutments under it. There ought to be some relief to South Water street railway crossing, this can be given by building a new draw bridge across the river, and approaches thereto, at some point between the C. C. C. & I. passenger draw bridge and Girard street. The cost of these improvements will be not far from \$85,000. The levy for the bridge fund in 1880 by the city amounted to about 18,043.04, and the amount levied on the city by the County Auditor, during the same year, was \$36,823.59, one-half of which, or about \$18,029.10, was turned over to the city by the County Auditor, and the other one-half will, or has been, used by the County Commissioners to build bridges and culverts throughout the county. The city has been taxed for and paid for bridge purposes outside of the city, about \$217,000, during the last ten years, while the county has not paid anything for bridges or culverts in the city. It will be absolutely necessary that the amount now furnished to the county for bridge purposes by the city be withheld, or the levy for bridge purposes in the city will have to be increased.

The operation of the Viaduct draw has been successful during the past year, the number of swings varies but little from the year previous, as will be seen from the accompanying table. Mr. T. J. W. Quirk, the first engineer in charge, has proved to be the right man in every respect for the place.

Two new bridges have been built across the Cuyahoga river during the past year by the Connotton Valley Railway, one of them a draw, and three more draw bridges are now being built, one by the N. Y. C. & St. L. R'y., and two by the Valley R'y Co., one of which is to span the old river bed near its junction with the river.

CUYAHOGA RIVER.

The dock frontage on the river from the L. S. & M. S. R'y bridge at the Government piers, up to the new canal locks, is about nine and one-half miles. The old river bed, not including the slips, has a dock frontage of about $1\frac{13}{16}$ miles, or in all $11\frac{2}{16}$ miles of dock frontage; there is about three and one-half miles of this frontage not docked. A large amount of new dock has been built on the upper portion of the river, more are to be, during the year 1882.

Business has increased largely on the upper end during the past year, and will increase from year to year, as the Valley, and the Connotton Valley Railroads have opened up facilities for shipping lumber and other freights to the interior, and are also bringing in large amounts of coal.

A considerable amount of dredging has been done in the river during 1881, from the canal lock down, and more must be done from year to year, to accommodate the growing business on the river.

The Cleveland Rolling Mill Company are building large blast furnaces up the river, and will want fourteen feet of water as far up as the N. Y. P. & O. R'y draw bridge, to deliver iron ore to their new furnaces. The distance from the L. S. & M. S. R'y bridge, at the Government piers, to the new canal lock, in a straight line, is two and one-half miles, and by the course of the river is four and seventy-seven one-hundredths miles.

The following table exhibits the radia, in feet, of the principal curves of the Cuyahoga river on the center line.

	Radia in feet of curves in center line of river.
Curve of Old River bed into Lake Erie, when opened..	700 feet radius
Curve of Old River bed on either side of Willow street bridge.....	550 " "
Curve from L. S. & M. S. R'y bridge at Government piers into Old River bed.....	550 " "
Curve from Old River bed up towards Main street bridge.....	300 " "
Curve through Viaduct draw.....	354 " "
Curve at Union Elevator.....	650 " "
Curve from Columbus street bridge up to Girard street.....	454 " "
Curve from C. C. C. & I R'y draw to center flats, up to C. C. C. & I. passenger draw.....	575 " "
Curve at Coe, Ely & Harmons' Forge, between Seneca street bridge and Lower Central Way bridge.....	265 " "
Curve just below Quayle's ship yard.....	400 " "
Curve just above Connotton Valley R'y draw bridge.	325 " "
Curve through Jefferson street bridge.....	275 " "
Curve around bend just below Valley R'y draw bridge.	300 " "

There are other curves not included in the foregoing table, but they are of large radius, and are about equal to a straight channel, so far as navigation is concerned.

I desire again to call attention to the difficulties experienced in working under Section 2,702, known as the "Burns' Law," referred to in my annual report for the year 1878. Under the provisions of this Section all money for any improvement must first be collected and in the City Treasury to the credit of such improvement before any work can be done, or even a contract made. Theroretically, this is a good law to work under—but

practically, it is a much better law to stop work under, It has served a good purpose during the years of financial depression in restricting improvements which were not called for and such as could be postponed until better times, but now that times have improved, and very many improvements that have been laid over from year to year have become an absolute necessity, and must be made, or the city will suffer financially, and in a sanitary point.

Many of the down town streets and alleys are in a very bad condition, and should be paved and improved to accommodate the increasing traffic of the city. but if we must wait until the money is collected, the streets cannot be improved, nor can contracts be let upon the one installment streets before August, 1882, and upon the two installment streets before August, 1883.

In the building of Branch or local sewers, where in many instances the Board of Health has declared it a sanitary necessity that certain streets or localities should be sewered at once, under this law it cannot be done before from one to two years thereafter.

It is in the construction of main and branch sewers, when the cost exceeds two dollars per foot front (which is all that the law allows upon abutting property) that this rule works the most disadvantageously.

As provided by law, the excessive cost of all such sewers designed to drain large, or even small districts is collected by a district tax on the entire valuation of the district to be drained, and is extended over periods of from three to ten and even twenty years, according to the burden of the tax. In such cases it is manifestly impracticable and unjust to commence to tax a district for a sewer to be built ten or twenty years hence, especially as the law allows the property owner no interest upon his money paid in advance. This last is a source of constant complaint from property owners who are called upon to pay so long in advance—not only the poor man who borrows his money and pays interest for it, but from the

man who takes his from the bank, and loses his interest, for neither gets any in return.

When payments are made after the work is done, as formerly, the property owner has the benefit of the improvement at once in lieu of interest, and if some provision could be made whereby property owners could receive interest upon money paid in advance for improvements, much complaint would be obviated.

All taxes collected in advance must be made upon preliminary estimates, often made up from six to eighteen months, and in case of main sewers, years in advance of the work, and if, as is the case in the large amount of work contemplated for the coming summer, the estimates are made on the eve of an advance in the price of labor and material, they are almost sure to be too low, and a re-assessment must be made. In all cases, except repaving, (which comes under a special act), this would delay the work for another year or more. If on the eve of a decline in prices, the estimates are made too high, and the property owners pay more than is necessary, which must be returned to him a year or two afterwards.

Steps ought to be taken at once for the construction of main sewers in the 14th, 16th, 17th, and 18th Wards, now almost entirely without sewerage, and in the Walworth Run district, but these cannot be built for years to come, under the present law, as each would involve a heavy district tax, covering a number of years.

I do not advise an entire repeal of this law but think it should be modified.

There are ten main sewers east of the Cuyahoga river, and one west of the same that have their outfall into Lake Erie. The one west of the river discharges through Oakland street into the lake just inside of the shore end of the Government Breakwater. There are also six main and sub-main sewers that now discharge into the river, from the territory west of the river; there are also four sewers that now discharge into Walworth Run. There are also eleven main and sub-main sewers

that discharge into the river from the territory east of the river, and four sewers that discharge into Kingsbury Run.

The discharge from the sewers that now have their outfall into Kingsbury and Walworth Runs finds its way into the river, so that now there are twenty five large and small sewers which may be said to discharge into the river. Some of these sewers were built a great many years ago, and the outfall of a sewer now and then into the river at that time did no apparent harm, but since the city has grown to contain a population of 186,000 people the discharge of so many sewers into the river, with the other filth that finds its way there from slaughter houses, manufactories, oil refineries, etc., has made the water in the river very foul, and, in time, will endanger the health of the city, and will have to be remedied by intercepting sewers or tunnels. And if the same state of affairs as experienced last summer during the dry season, should continue from year to year, some remedy must soon be applied to do away with the present evils and prevent their increase. It will cost a large amount of money, but if by so doing a low death rate can be maintained in the city, the money will be well expended.

Cleveland is not unlike many other cities of its size in regard to sewerage, it is much better than some, and on the whole averages well. So far as my observation has extended, many of the large cities either have one now, or soon will expend large sums for main and intercepting sewers.

Cleveland now has fifteen sewer districts. All of the territory lying north of Woodland avenue, Ontario street to Superior street, to Bank street, to St. Clair street, to Water street, to Front street to the lake is now or can be sewerred into the lake. All of the territory lying south and west of Woodland avenue and the streets before mentioned, embracing the territory drained by Kingsbury Run, the 14th and 18th Wards, will have the outfall of its sewers into the river. All of this territory lies east of the Cuyahoga river.

West of the river, the territory embraced in the Oakland street sewer district will have its outfall into the lake. All

other territory west of the river now discharges either into the old river bed, the river or Walworth Run.

From calculations made, I find that of the 26 and eighty-two-one hundredths square miles of territory within the city limits about fifteen square miles is now, or will have, the outfall of its sewers into the river at some time, unless taken up by intercepting sewers or otherwise.

Intercepting sewers can be built a few feet above the level of the lake that will discharge themselves by gravitation, but this will leave the flats on both sides of the river unprovided for, and this territory will still have the outfall of its sewers into the river.

In my last annual report, I suggested a plan for the location of an intercepting sewer, running from near Willson avenue, by tunnel, under Lake street, to Spring street, thence southerly along the east side of the river, under the bank to Commercial street. It should be extended to Kingsbury Run, there it will intercept all the sewerage from the Run and the 14th and 18th Wards.

All the territory now sewered into Walworth Run, or that will ever be discharged there, can be carried by a main sewer, in or along Walworth Run, to a point near the river, and then be discharged by a syphon sewer, or tunnel, under the river, into the intercepting sewer on the east side of the river. By this method a large part of the sewerage can be kept out of the river.

This system would require no pumping. The plan proposed for a tunnel would provide for all sewers as proposed for by the intercepting sewer, and also all territory on the flats along the river.

That part of the intercepting sewer, before described, from Willson avenue by tunnel, under Lake street to Spring street, near the river, would be the same. At some point near Main and Spring streets, would be located pumping works, at the north end of the proposed tunnel, this tunnel would run under

the river just above Main street bridge, curve across the flats, pass under the Viaduct and under the river just below Center street bridge, thence, in a straight line up the river, crossing under it twice, to the line of Central Way just above its intersection with Ohio street, thence along Central Way, crossing again under the river at Upper Central Way bridge, to a point near Jefferson street, this would be the end for the present.

Then all sewers discharging into the river, on each side, including Walworth and Kingsbury Run sewers, when built, could be connected with this tunnel, and the sewerage be pumped out or up into the tunnel under Lake street, and be discharged into the lake at Willson avenue, or some other point. All the sewers that now have their outfall into the lake, east of the river, could be connected with this tunnel.

Overflows would have to be provided so that a small amount, if any, of the storm water would find its way into this lower tunnel.

In Boston, Mass., they are now constructing, at a cost of nearly \$3,500,000, intercepting sewers and a tunnel under the Bay. A large part of the sewerage of the city is taken up by intercepting sewers, then it is pumped up into reservoirs and finally discharged by gravity, through a tunnel seven feet six inches in diameter, built one hundred and fifty seven feet below the level of the water in the Bay. This tunnel is over six thousand feet long, and is to discharge all the sewage that will be drawn and pumped from fifteen square miles of territory in the city, and a small part of the rain fall.

It has been suggested by many that the river can be flushed out occasionally, and this could be done by damming up the river at some point above the city, and thus hold a large body of water in a reservoir during the summer season, to be used for flushing purposes. This plan has been tried to some extent in different places, but has not proved very satisfactory, and is not regarded by engineers as very effective. During the months of July, August, September, and October of last year,

or during the dry season, there was discharged daily into the river by the passage of boats through the canal transfer lock, about 353,713 cubic feet of water, and this had no perceptible effect towards cleaning the river.

Through the courtesy of Colonel John M. Willson, U. S. Engineer, in charge of Government works here, and who has caused the volume of water that flows out of the Cuyahoga river to be measured recently, ascertained it to be at this season of the year, not during a flood, but at an average stage, 50,000 to 75,000 cubic feet per minute.

The volume of water discharged by the Cuyahoga river during the summer, or during a dry season, would be very much less per minute, than it is during the winter.

The summer flow of the river can be increased in another way. A tunnel or conduit can be constructed from the lake, under the city, to some point up the river, and lake water pumped through it, discharging into the river at the upper end of the tunnel. In this way the river could be flushed out—as to how well the work could be done would depend on the amount of lake water thrown into the river from the tunnel. But whatever plan is pursued, time should be taken to thoroughly and scientifically examine all plans, and to adopt one that shall be effective and at the same time not too expensive.

The compilation of the Record of City Property has been steadily advanced, and has received all the attention that could be given outside of the more pressing work of the office. Up to January 1st, 1882, about 375 deeds had been examined and abstracts taken. All City Deed, Abstract, and other property records have been thoroughly examined but there still remains a large amount of information to be obtained from the County Records, and the copying and arrangement in their proper order of all transfers.

There was completed in 1881, and given to the City Clerk for copying in his Duplicate Record, the complete record so far as the city is concerned, up to January 1st, 1882, of the fol-

lowing pieces of property, viz: Armory lots, 2; Police Station lots, 6; Engine House lots, 13; and Cemeteries 5; Total 26, requiring the showing of 53 transfers.

A large amount of work that cannot be tabulated has been done in the examination of all petitions, remonstrances, etc., referred to the Engineer. These nearly always require examination of the County Records. The frontage represented on the same, reported in 1881, was about 85,000 feet, or over 16 miles.

The locating and recording in books and maps of all new street lamps has also been kept up. The total number of street lamps charged to the city, January 1st, 1882, was 4,974, an increase of 219, since January 1st, 1881.

I now have seven assistants, including rodmen. An increase in the force will have to be made if all, or a part, of the work now contemplated should be done.

One of my assistants, Mr. C. A. Walter, has been removed by death during the past year. He was a very thorough, able and careful assistant, and stood high, not only as a surveyor, but in all his relations and dealings with his fellow men, and all who knew him by his works feel that the office has lost a valuable man.

The accompanying tables exhibit in detail a part of the work done by this department during the past year.

B. F. MORSE,
City Civil Engineer.

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STATISTICAL TABLES.

TABLE No. 1.

Table showing the amount levied by the County upon City property for bridge purposes, and the amounts of such levy turned over to the City, for ten years, from 1871 to 1881:

YEAR.	Total Valuation of City Property.	Rate of County Levy.	Amount of County Levy on City Property.	Am't of such Levy rec'd by City from County one year later.
1871.....	\$57,841,748 00	3-10 mills.	\$ 17,352 45	\$15,279 58
1872	59,728,872 00	6-10 "	35,837 17	2,306 22
1873	69,462,594 00	5-10 "	34,572 38	16,544 42
1874	73,210,144 00	5-10 "	36,605 67	17,567 38
1875	73,305,277 00	5-10 "	36,652 64	17,497 65
1876	73,562,237 00	7-10 "	51,498 37	7,399 27
1877	71,296,122 00	5-10 "	36,648 06	12,015 04
1878	70,129,639 00	5-10 "	35,069 82	11,775 50
1879	70,548,104 00	4-10 "	28,219 26	14,109 68
1880	73,647,194 00	5-10 "	36,823 59	18,029 19
Totals.....			\$349,274 41	\$132,426 29

Total amount collected on City property for last ten years by County...\$349,274 41

Amount of same received and used by City..... 132,426 29

Amount of same used by County outside of City.....\$216,848 12

TABLE No. 2.

Table showing amount levied by City, from 1871 to 1881, in addition to amount received from the County levy, for the construction and maintenance of City bridges:

YEAR.	Valuation of City Property.	Rate of City Levy.	Amount of City Levy in addition to County Levy.	Rate Paid by City on both City and County Levy
1871.	\$57,841,746 00	8-10 mills.	\$46,273 40	1.1-10 mills.
1872 ..	59,723,872 00	2-10 "	11,945 77	8-10 "
1873	60,462,594 00	2-20 "	6,946 26	12-20 "
1874	73,210,144 00	3-20 "	10,961 53	13-20 "
1875.	73,305,277 00	5-20 "	18,326 32	15-20 "
1876	73,562,237 00	6-20 "	22,068 68	1.0-00 "
1877	71,296,122 00	4-20 "	14,259 22	14-20 "
1878	70,139,639 00	4-20 "	14,029 93	14-20 "
1879	70,548,104 00	5-20 "	17,637 03	13-20 "
1880	73,647,194 00	5-20 "	18,361 80	15-20 "
Total			\$180,829 94	

TOTALS FOR TEN YEARS.

Amount levied by County on City property.....	\$349,271 41
Amount which County received from above levy.....	216,848 12
Amount which City received from above levy	132,423 29
Amount of deficiency made up by additional levies by City on City property.	180,829 94
Total amount required for City bridge purposes	313,256 23
Total amount paid by City for City and County bridge purposes, except the Viaduct.....	530,104 35
Cost of culverts in City from January 1, 1873, to January 1, 1881, and for which special taxes were levied.....	113,159 45

TABLE No. 3.

STREETS ON WHICH SIDEWALK GRADES HAVE BEEN GIVEN.

NAMES OF STREETS.	Length in Feet
Barber avenue	1,884
Branch avenue.....	1,190
Giddings avenue.....	300
Henry street.....	36
Lorain street.....	733
Mason street.....	1,558
North Perry street.....	800
Osborn street.....	1,000
Payne avenue.....	162
Pelton avenue.....	3,426
Professor street.....	4,284
Seymour avenue.....	6,138
State street.....	284
Summit street.....	338
Superior street.....	1,890
Vega avenue.....	150
Walton avenue.....	781
Wasson street.....	512
Waverly avenue ..	1,980
Willson avenue.....	155
Total in feet.....	27,376
Total in miles.....	5 18-1000

TABLE No. 4.
SEWERS BUILT IN 1881.

Names of Streets.	From	To	Length.	Size.	Material.	Cost.	Contractor.
Adelbert avenue	Euclid.....	Southerly	1,810	No. 2.	Brick.....	\$ 1,716 41	L. F. Beers.
Belden street.....	Mason.....	Northerly	586	15 in.	"	471 50	Wood Bros.
Cedar avenue.....	Willson.....	Second	194	12 "	Pipe	219 50	" "
Duane street	Woodbine.....	Northerly	371	12 "	"	204 05	" "
Euclid avenue.....	Russell.....	G. Brook.....	500	9 "	"	215 00	Daykin Bros
Fourth Avenue.....	Willson.....	Second	685	9 "	"	275 00	Wood Bros.
Griswold street.....	Kinsman.....	Lisbon.....	5 8	15 "	"	446 40	" "
Hicks street.....	Bridge.....	Southerly	700	12 "	"	450 00	Clements, R. J.
Hoadley street.....	Superior	Payne.....	508	9 "	"	254 00	Wood Bros.
Slater street.....	Griswold.....	Orange.....	1,556	15 "	"	1,300 00	" "
Mayflower street.....	Woodland.....	Belden.....	140	12 "	"	114 00	Clements, R. J.
Mason street.....	Willson.....	Woodland.....	667	9 "	"	315 43	Wood Bros.
Osborn street.....	Scoville.....	Southerly	902	15 "	"	1,414 80	" "
Tutnam street.....	Garden.....	Northerly.....	850	12 "	"	381 00	Dennon, George
Second street.....	Garden.....	Northerly.....	500	15 "	"	1,800 00	Clements.
			500	12 "	"	664 00	Wood Bros.

TABLE No. 4—Continued.
SEWERS BUILT IN 1881.

Names of Streets.	From	To	Length.	Size.	Material.	Cost.	Contractor.
Superior street ..	Willson	Balden ..	1,480	15 in.	Pipe	\$ 2,000 00	Wood Bros.
Third street	Willson	Second ..	300	12 "	"	66 00	" "
White avenue ..	Willson	Norwood ..	1,710	15 "	"	1,388 00	" "
Whitman street ..	Randall	Easterly ..	1,620	.....	" .....	1,400 00	" "
Willson avenue ..	Rear of lots Willson.	Easterly ..	500	12 "	"	380 00	Daykin Bros.
Woodland Cemetery ..	Woodland	Northerly ..	535	9 "	"	234 00	Wood Bros.
			940	9 "	"	495 00	Mahon, John
Total length in feet.....			19,028			\$16,168 80	
Total length in miles.....			3.61				

TABLE No. 5.
STREETS PAVED, CURBED OR GRADED.

Names of Streets.	From	To	How Improved.	Length.	Cost.	Contractors.
Adelbert avenue	Euclid	Lot line	Graded.....	2,221	\$ 1,598 21	M. Carroll.
Allen street.....	Parkman	Burnham	"	565	100 00	Brennan Bros.
Alley	Otakar	Mead	"	610	20 00	L. Brennan.
Belden street.....	Mason	Northerly	Curbed.....	140	35 00	Property owners.
Birch street	Franklin	Southerly	"	800	.....	" .....
Bismarck avenue.....	Holton... ..	Alley	Graded.....	900	.....	S. Beckwith.
Case avenue, (incomplete)...	Euclid	Garden	Paved	2,552	18,169 68	A. Campbell.
Garden street	Willson	C. & P. R. ..	Curbed.....	2,250	450 00	.....
Hoadley street. . .	Superior.....	Payne.....	Graded.....	1,510	420 00	T. Gregory.
Iona street... ..	Clark	Storer.....	"	2,604	364 27	P. O'Sullivan.
Isabella street.....	"	"	"	2,566	501 06	"
Lake street.....	Case	Easterly.....	"	800	500 00	Moran.
Lena avenue.. ..	E. Madison.....	Giddings	Graded and curbed.	1,566	351 00	.....
Lorain street.	Waverly.....	Chestnut Ridge	Graded, curbed and cindered }	2,830	2,011 98	P. O'Sullivan.
Market space	McLean	Alley.....	Graded and paved.	132	1,509 87	O'Donnel & Smith.

TABLE No 5—Continued.
STREETS PAVED, CURBED OR GRADED.

Names of Streets.	From	To	How Improved.	Length.	Cost.	Contractors.
Martin street	Broadway.	Northerly	Graded	700	\$ 120 00	M. Carroll.
Mason street	C. & P. R. R.	Easterly	Curbed	283	96 25	.....
Osborn street	Garden	Scovill	Graded and curbed	1,200	428 00	M. Carroll.
Otakar street	Finn	Alley	Graded	300	90 00	L. Brennan.
Ontario	N. line Mon. Square	S. line Mon. Square	Paved	520	7,160 62	Albion Med. Stone Co.
Sawtelle avenue	Finn	Alley	Graded	300	40 00	L. Brennan
Superior street	E. line Mon Square	W. line Mon. Square	Paved	487	4,905 24	Albion Med. Stone Co.
Total length in feet				26,006	\$38,960 18	
Total length in miles				4.93		

TABLE No. 6.
STREETS ON WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN.

Names of Streets.	From	To	Length.	Work Done.
Adelbert avenue.....	Euclid.....	Lot line.....	2,221	C. S.
Allen street.....	Parkman.....	Burham.....	.....	"
Alley.....	Dakota.....	Mead.....	610	"
Alley.....	Lorain.....	Mason alley.....	280	"
Beech street.....	Garden.....	Scovill.....	1,331	"
Blamarck avenue.....	Holton.....	Southerly.....	1,180	Levels.
Cass avenue.....	Euclid.....	Garden.....	2,552	C. S.
Classen street.....	Brecksville road.....	Easterly.....	1,610	Levels.
Colorado street.....	Bliss.....	Northerly.....	1,134	"
Duane street.....	Woodbine.....	Franklin.....	847	"
Fleet street.....	Independence road.....	Jennings.....	8,575	"
Forest street.....	Garden.....	Cedar.....	964	"
Fowler street.....	Broadway.....	N. Y. P. & O. R. R.....	1,165	C. S.
Frankfort street.....	Seneca.....	Bank.....	431	Levels.
Fuhrman street.....	Marquardt.....	South.....	400	"

TABLE No. 6—Continued.
STREETS ON WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN.

Names of Streets.	From	To	Length.	Work Done.
Herald street.....	Kinsman.....	Valley.....	1,255	Levels.
Hoadley street.....	Superior.....	Payne.....	1,510	C. S.
Holley street.....	Broadway.....	Independence road.....	880	Levels.
Ingersoll street.....	Woodland Hills.....	Easterly.....	1,100	"
Jewett street.....	Petrie.....	Lot line.....	1,645	"
Lake street.....	Case.....	Easterly.....	1,850	"
Martin street.....	Broadway.....	Northerly.....	1,010	C. S.
Merwin street.....	Superior.....	Center.....	912	Levels.
Otakar street.....	Finn.....	Alley.....	300	C. S.
North Perry street.....	Euclid.....	Superior.....	2,160	"
Proposed outlet to ship channel.....	Old river bed.....	Lake Erie.....	200	Levels.
Professor street.....	Starkweather.....	Felton.....	2,221	"
Quincy street.....	Woodland Hills.....	Baldwin.....	453	"
Sawtelle avenue.....	Finn.....	Alley.....	300	C. S.
Sawyer street.....	N. Y. P. & O. R. R.....	Booth.....	496	Levels.

TABLE No. 6—*Concluded.*

• STREETS ON WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN.

Names of Streets.	From	To	Length.	Work Done.
Sixth avenue.....	Willson.....	Norwood.....	1,650	Levels.
Spring street.....	Main.....	St. Clair.....	885	C. S.
Superior street.....	Perry.....	Willson.....	8,182	Levels.
West Side Market space....	McLean.....	Alley.....	132	C. S.
Total length in feet.....			51,046	
Total length in miles.....			9.67	

TABLE No. 7.

Table of maps of Sub-divisions approved by Council in 1881, and which are examined and reported on by the Engineer.

Name.	Date of Approval.
Southern & Chamberlain's sub-div., in original lots 334 and 335..	January 10, 1881
C. A. Post's sub-division, in ten acre lots 127 to 129	" 17, 1881
Cyrus Bosworth's sub-division, of lot 3, Taylor farm.. .. .	March 21, 1881
Edwin Fowler's sub-division, in original lot 324.....	April 21, 1881
Alfred Kellogg's sub-division, in original lot 87.....	" 12, 1881
H. H. and J. Holly's sub-division, in original lot 278.....	May 23, 1881
Perkins & McIntosh's dedication of Asylum and Kirtland sts..	" 23, 1881
O. M. Stafford's sub-division, in original lot 321.....	June 13, 1881
Robert Paton's sub-division, in original lot 447	" 20, 1881
S. B. Priest's sub-division, in original lot 68	" 20, 1881
O. H. Payne's sub-division, in ten acre lots 106 to 110.....	August 15, 1881
George Dietz's sub-division, in original lot 324.....	" 15, 1881
A. McIntosh's sub-division, in ten acre lots 125 and 126	" 15, 1881
A. W. Morgan's sub-division, in original lot 318.....	October 10, 1881
Martha C. Ford's sub-division, in original lots 403 and 404.....	Novem'r 14, 1881
H. C. Miller's sub-division, in original lot 302.....	" 23, 1881
H. C. Sterling's sub-division, in original lot 336.....	Decem'r 19, 1881
J. F. Brown's sub-division, in original lots 315 and 319.....	" 19, 1881
J. B. Perkins' sub-division, in original lot 71.....	" 19, 1881

TABLE No. 8.
MAPS WITH FRONTAGES AND NAMES OF PROPERTY OWNERS FURNISHED IN 1881, FOR USE IN ASSESSMENTS
AND FOR SERVING NOTICES ON STREETS.

Names of Streets.	From	To	Length in Feet.
Allen street.....	Parkman street	Brownell street	505
Broadway	Ohio	Liberal	3,530
Broadway	Independence street.....	Mead avenue.....	5,750
Clinton street.....	Taylor	Liberty street.....	615
Detroit "	188 feet east of Pearl street	Kentucky	2,560
Detroit "	208 feet west of Waverly "	City limits.....	1,178
Dare	Lorain street	South line Ravine street.....	797
Erie	Lake	Woodland avenue.....	4,800
Euclid avenue	West line Perry street.....	Fairmount street.....	16,860
Emerald alley.....	Muirson	Dodge	1,460
Franklin Place, north side	Franklin avenue.	Fulton	410
Garden street.....	Willson	Lincoln avenue	5,974
Krupp alley.....	Lorain street.....	Keene alley.....	256
Lorain street	Pearl	West line Waverly avenue	6,720
Monumental Park, south and west sides.....	Euclid avenue.....	Superior street	715
North Woodland avenue.....	Woodland	Congress	321

TABLE No. 8—Continued.
 MAPS WITH FRONTAGES AND NAMES OF PROPERTY OWNERS FURNISHED IN 1881, FOR USE IN ASSESSMENTS
 AND FOR SERVING NOTICES ON STREETS.

Names of Streets.	From	To	Length in Feet.
Payne avenue ..	Superior street ..	Huntington street... ..	1,980
Pearl street..	Detroit " ..	South line Monroe street ..	4,068
Poplar " ..	Clark avenue ..	Storer avenue ..	2,612
Prospect " ..	Perry street ..	Case " ..	4,575
Sibley " ..	Hayward " ..	Kennard street.....	1,980
Superior " ..	Water " ..	Monumental Park ..	1,325
Superior " ..	Monumental Park..	Willson avenue.....	12,860
St. Clair " ..	Erie street ..	" ..	12,300
Summit " ..	Seneca " ..	Erie street.....	2,185
Seneca " ..	Superior " ..	St. Clair " ..	635
Tod " ..	North line Francis street.....	Union " ..	5,590
Willson avenue ..	Broadway ..	N. Y. P. & O. R. R.....	1,666
Woodland " ..	Perry street..	Willson avenue ..	6,655
Total .....	.....	.....	111,038
Total miles .....	.....	.....	21½

TABLE No. 9.
STREET NUMBERING MAPS MADE IN 1881

Names of Streets.	From	To	Length in Feet.
Abbey street.....	Lorain street.....	East end... ..	1,310
Bell avenue.....	Euclid avenue.....	Cedar avenue.....	1,310
Brownell street.....	Scovill " ..	Woodland " ...	915
Detroit " ..	Center street.....	City limits.....	3,555
Lorain " ..	90 feet east of Bradford street.....	" " ..	9,510
North Perry " ..	Euclid avenue	St. Clair street.....	2,885
Norwood " ..	Hough " ..	Superior " ..	3,575
Prospect " ..	Ontario street.....	Willson avenue	11,160
State " ..	Quincy " ..	Kinsman street.....	3,230
Washington " ..	West River " ..	Kentucky " ..	4,430
Total .....	.....	.....	40,080
Total miles... ..	.....	.....	8 4-5

TABLE No. 10.

SURVEYS MADE IN 1881.

To reset monument center Clark avenue and west line Fountain street.

Engine House lot on Pearl street, between Walton and Clark avenues.

To establish north line of West Side Market grounds.

To establish west line of Rockwell Street School lot.

Survey of Fleet street extension—Independence street to Jennings avenue.

Survey of Ohio Canal—re-location of base lines, Cuyahoga river to new lock.

TABLE No. 11.

GAS AND FLUID STREET LAMPS IN USE JANUARY 1st, 1882, THAT
ARE CHARGED TO THE CITY OF CLEVELAND.

EAST OF CUYAHOGA RIVER.

Ward.	Gas.	Fluid.
First.....	241	88
Second.....	162	.....
Third.....	128	.....
Fourth.....	231	7
Fifth.....	284	22
Sixth.....	612	1
Seventh.....	155	247
Fourteenth.....	121	108
Fifteenth.....	108	153
Sixteenth.....	208	48
Seventeenth.....	204	43
Eighteenth.....	171	.....
Total east of river.....	2,623	682

WEST OF CUYAHOGA RIVER.

Ward.	Gas.	Fluid.
Eighth.....	179	51
Ninth.....	199	18
Tenth.....	241	71
Eleventh.....	163	114
Twelfth.....	131	201
Thirteenth.....	173	148
Total west of river.....	1,086	693
Total in City.....	3,707	1,285
Increase since January 1st, 1881.....	107	112

TABLE No. 12.

TABLE SHOWING WORK DONE BY VIADUCT DRAW DURING THE
SEASON OF 1881.

Months.	No. Vessels Passed Through.	No. Times Draw Opened.	Average Time of Vessel in Passing. Minutes.	Average Time Draw Opened. Minutes.	Av. No. Vessels Through per day.
March.....	25	25	5.85	5.85	0.80
April....	120	108	4.28	5.08	4.00
May.....	561	469	3.95	4.52	18.10
June.....	555	480	3.94	4.27	18.50
July.....	597	507	3.68	4.33	19.26
August ..	637	555	3.57	4.10	20.55
September ..	577	514	3.66	3.78	19.23
October.....	339	516	3.75	4.00	18.61
November..	465	411	3.73	4.17	15.50
December...	78	79	4.06	4.12	2.51
Total—1881.....	3,954	3,689	4.05	4.43	12.98
Total—1880.....	3,938	3,374	4.47	.....	.....

1881—Coal consumed..... 42 tons—Average per day, 233 lbs.

1880—Coal consumed..... 46 tons—Average per day, 252 lbs.

TABLE No. 13.

SUMMARY OF WORK DONE BY ENGINEER'S DEPARTMENT
DURING THE SEASON OF 1881.

Name of Improvement.	Cost.	Contractors.
Broadway culvert—(work done in 1881).....	\$ 764 32	L. F. Beers.
Case avenue paving (Incomplete)	18,169 68	A. Campbell.
Case avenue main sewer outlet.....	852 95	Wood Bros.
Columbus street bridge—protection piling.	146 10	P. Smith.
Cuyahoga river dredging	63,405 15	Sims & Smith.
Grading and curbing—(work done by property owners.....)	4,250 48	
Jefferson street bridge—protection piling..	107 40	J. Gloyd.
Iona street grading.....	354 27	P. O'Sullivan.
Isabella street grading	501 06	" "
Lorain street grading, curbing and cinder- ing—(work done in 1881).....)	2,011 98	" "
Ontario street paving.....	7,160 62	Albion Med. Stone Co.
Scranton avenue culvert—(incomplete)....	1,230 00	Wood Bros.
Scranton avenue—protection piling.....	799 65	J. Engle.
Sewers	16,163 89	
Sidewalks	2,074 31	Tuttle & Cavanaugh.
Sprinkling	1,434 16	{ Thoman, Costello, O'Neil & Disberger.
Superior street paving—(work done in 1881)	4,905 24	Albion Med. Stone Co.
West Side Market space.	1,509 87	O'Donnel & Smith.
Total.....	\$125,847 11	

ANNUAL REPORT

OF THE

BOARD OF IMPROVEMENTS,

OF THE

CITY OF CLEVELAND,

For the Year Ending December 31, 1881.

ANNUAL REPORT OF THE BOARD OF IMPROVEMENTS.

To the Honorable City Council:

GENTLEMEN:—The Board of improvements herewith submits its report for the fiscal year ending December 31st, 1881, together with the accompanying reports of the City Civil Engineer and Street Commissioner; the former furnishing full and complete statistics of all new and permanent improvements, while the latter give specific amounts of all expenditures for repairing and cleaning the public streets, etc.

The total expenditure for all services performed and materials furnished under the supervision of the Board, including the Engineer's and Street Commissioner's departments, were \$312,111.93½.

There have been one hundred and sixteen meetings of the Board during the year, of which one hundred were regular, and sixteen special meetings.

Although no very extensive or permanent improvements have been executed during the past year, yet the Board has been especially active in attending to the general routine of business, relative to which its action was imperative.

The new railroads that have recently entered the City, and the various street railroads have consumed much of its time and deliberation. Probably at no time in the history of the city has there been more pressing demands of the board to repair and keep in passable condition our public thoroughfares than during the past year, and to the extent of its power and the means at its command it has endeavored to discharge faithfully the responsible trust imposed upon its members. During

the year it has recommended, which the council subsequently passed, nineteen ordinances for paving and repaving, and five for constructing sewers in certain streets.

As to the kind of paving material to be used in the future, and the manner of paying for the same, the Board has heretofore expressed its opinion, but there is, however, another question relative to street improvements, upon which there should be some legislation, namely that after abutting property owners have once paid for, or have paid their proportionate share of paving a street, with a good durable stone material, they should be relieved from further obligations to the same. The New York Medina sandstone furnishes good evidence of its apparent value and worth as a species of paving material in its use of more than twenty years on the north side of Monumental Park, and nearly that time in Euclid avenue, between Erie and Perry streets, and involving in the interval, very little expense in repairs.

Contracts will be executed for repaving a number of our principal streets during the coming season—this, however, will be only a beginning in the right direction.

Unfortunately we have had bitter experience in the use of paving material in the past, and all of those streets that have been paved other than with stone must soon be repaved; and there are also other streets that have not been paved—especially in the business portion of the city—that should be paved as soon as circumstances will permit.

There are no public improvements of so much importance to the sanitary condition and prosperity of the city as the paving and repaving of our public thoroughfares and perfecting our sewerage.

These improvements should be continued each year until we have fully met the wants of the people and city pertaining to the same.

The question of an intercepting sewer has been discussed pro and con, and it is the opinion of the Board that it is a sanitary necessity, and that its construction should be commenced as soon as the plans for the same can be perfected. This subject is ably presented in the accompanying report of the Engineer, and should be perused with careful deliberation.

The coming year will be an extremely busy one for the Board. Many permanent improvements will be commenced and executed, others will be under contemplation, all of which will demand its special attention and careful examination, and thereby greatly augmenting the duties of this department.

The accompanying reports of the Engineer and Street Commissioner point out many valuable suggestions in their respective departments which are respectfully indorsed by the Board, and referred to your honorable body for its equitable consideration and approval.

The expenditures authorized by the Board and not included in the reports of the Engineer and Street Commissioners were as follows, to-wit:

BRIDGES.

VIADUCT—

Tenders' pay roll.....	\$ 6,538 24
Repairs pay roll.....	598 08
Supplies for repairs.....	612 15
Ordinary supplies.....	498 39
	<hr/> \$ 8,246 86

WILLOW STREET—

Tenders' pay roll.....	\$ 2,333 40½
Repairs pay roll.....	314 98
Supplies for repairs.....	229 64
Ordinary supplies.....	60 84
	<hr/> \$ 2,938 81½

MAIN STREET—

Tenders' pay roll.....	\$ 2,331 07½
Repairs pay roll.....	491 51
Supplies for repairs.....	289 42
Ordinary supplies.....	63 76
	<hr/> \$ 3,175 76½

CENTER STREET—

Tenders' pay roll.....	\$ 2,295 84
Repairs pay roll.....	57 74
Supplies for repairs.....	39 13
Ordinary supplies.....	31 89
	<hr/> \$ 2,424 60

SENECA STREET—

Tenders' pay roll.....	\$ 2,043 22½
Repairs pay roll.....	307 37
Supplies for repairs.....	478 86
Ordinary supplies.....	62 42
	<hr/> \$ 2,891 87½

COLUMBUS STREET—

Tenders' pay roll.....	\$ 2,107 22½	
Repairs pay roll	231 73	
Supplies for repairs.....	73 84	
Ordinary supplies.....	42 49	
		<hr/> \$ 2,455 28½

UPPER CENTRAL WAY—

Tenders' pay roll.....	\$ 2,049 70	
Repairs pay roll	218 16	
Supplies for repairs	27 73	
Ordinary supplies.....	33 67	
		<hr/> \$ 2,329 26

LOWER CENTRAL WAY—

Tenders' pay roll.....	\$ 2,075 18½	
Repairs pay roll	130 39	
Supplies for repairs.....	88 96	
Ordinary supplies.....	32 69	
		<hr/> \$ 2,327 22½

JEFFERSON STREET—

Tenders' pay roll.....	\$ 972 00	
Repairs pay roll	70 71	
Supplies for repairs	122 23	
Ordinary supplies	8 06	
		<hr/> \$ 1,172 99

WALWORTH RUN—

Tenders' pay roll.....	\$ 1,089 00	
Repairs pay roll	182 72	
Supplies for repairs.....	20 45	
Ordinary supplies	45 39	
		<hr/> \$ 1,287 56

SWISS STREET—

Tenders' pay roll.....	\$ 365 00	
Repairs pay roll	103 72	
Supplies for repairs	8 09	
Ordinary supplies	11 20	
		<hr/> \$ 488 01

STEARNS STREET—

Repairs pay roll	\$ 19 86	
Supplies for repairs	4 99	
		<hr/> \$ 24 85

FACTORY STREET—

Repairs pay roll.....	\$ 107 75	
Supplies for repairs	477 46	
		<hr/> \$ 585 21

COMMERCIAL STREET—

Repairs pay roll.....	\$ 5 19	
		<hr/> \$ 5 19

MADISON AVENUE—

Repairs pay roll.....	\$ 45 00	
Supplies for repairs.....	22 50	
		<hr/> \$ 67 50

MILL STREET—

Repairs pay roll.....	\$ 10 60	
		\$ 10 60

SOUTH WATER STREET—

Repairs pay roll.....	\$ 127 88	
Supplies for repairs.....	225 82	
		\$ 353 70

WEIGH LOCK—

Repairs pay roll.....	\$ 5 75	
Supplies for repairs.....	4 70	
		\$ 10 45

WINSLOW STREET—

Repairs pay roll.....	\$ 36 52	
Supplies for repairs.....	85 39	
		\$ 121 91

GENERAL BRIDGE ACCOUNT—

Repairs pay roll.....	\$ 97 50	
Lumber.....	1,334 36	
Supplies for repairs.....	151 39	
Ordinary supplies.....	124 36	
		\$ 1,707 61

Grand total.....	\$32,625 26½
------------------	--------------

LIGHTING ACCOUNT.

Brush Electric Light	\$ 1,616 65	
Fluid lamps, lighting and care.....	9,873 39	
Gas furnished, etc.	46,034 17	
New lamp-posts, etc.....	2,803 14	
		\$ 60,327 35

SUPERINTENDENTS OF IMPROVEMENTS.

Culvert and sewer.....	\$ 79 75	
Dredging.....	215 00	
Grading	236 75	
Paving.....	543 00	
		\$ 1,079 50

OTHER EMPLOYES.

Mayor's Clerk and Clerk of Board	\$ 2,000 00	
Inspector for sidewalks.....	720 00	
First Assistant Clerk	635 00	
Second Assistant Clerk.....	565 00	
Elevator operator.....	630 00	
Engineers of heating apparatus	1,310 44	
Fireman of heating apparatus.....	240 08	
		\$ 6,150 52

CITY HALL.

Repairs on heating apparatus and elevator.....	\$ 382 95	
Repairs on offices, including grates and painting.....	878 63	
Repairs on building including painting.....	611 91	
Supplies, coal., etc.....	333 27	
	<hr/>	\$ 2,193 76

MAYOR'S AND BOARD OF IMPROVEMENTS' OFFICE.

Supplies.....	\$ 225 40	
Stationary.....	133 82	
	<hr/>	\$ 358 72

POUNDS.

FIFTH WARD—

Pound keeper's pay.....	\$ 666 25	
Coal.....	6 30	
	<hr/>	\$ 672 55

SIXTH WARD—

Pound keeper's pay	\$ 678 75	
Rent of pound	35 00	
	<hr/>	\$ 713 75

THIRTEENTH WARD—

Pound keeper's pay.....	\$ 612 50	
Rent of pound.....	35 00	
	<hr/>	\$ 647 50

FOURTEENTH WARD—

Pound keeper's pay.....	\$ 612 25	
Rent of pound	15 00	
	<hr/>	\$ 627 25

SEVENTEENTH WARD—

Pound keeper's pay.....	\$ 715 00	
Rent of pound.....	12 00	
Supplies.....	50	
	<hr/>	\$ 727 50

EIGHTEENTH WARD—

Pound keeper's pay.....	\$ 630 00	
Rent of pound.....	25 00	
	<hr/>	\$ 655 00

SWISS STREET--

Pound keeper's pay.....	\$ 668 85	
	<hr/>	\$ 668 85
Total.....		\$ 4,712 40

CATCH BASINS AND SEWERS.

Champlain street at Poverty Barn, sewer repair.....	\$ 7 75	
Champlain street springs taken up.....	30 50	
Broadway sewer repair.....	20 56	
Cleaning catch basin in Champlain street.....	2 75	
	<hr/>	\$ 61 56

PAVEMENT REPAIRS.

Bond street.....	\$ 165 00	
Euclid avenue.....	1,750 00	
Lake street	175 00	
Ontario street.....	40 00	
Prospect street.....	125 00	
Sheriff street	50 00	
Seneca street.....	160 00	
	<hr/>	\$ 2,465 00

CUYAHOGA RIVER.

Towing snags	\$ 354 00	
Removing ore from river.....	309 50	
Getting fastenings for vessels.....	58 00	
Sounding river	17 71	
	<hr/>	\$ 739 21

ARMORY ACCOUNT.

Supplies for repairs.....	\$ 273 55	
Ordinary supplies.....	138 12	
	<hr/>	\$ 411 67

MARKET ACCOUNT.

Cleaning markets and hay scales.....	\$ 152 20	
Repairs of hay scales	5 19	
Supplies and coal.....	21 46	
	<hr/>	\$ 178 85

MISCELLANEOUS.

Awnings for different offices.....	\$ 149 35	
Repairs to docks.....	146 84	
Repairs to Rhodes avenue stairs	53 33	
Rebuilding bridges on Broadway.....	113 64	
Cleaning streets in section 2	694 28	

Printing and advertising.....	1,520 95	
Claim for damages.....	91 00	
Street signs.....	6 80	
Badges.....	10 00	
Solicitor's office carpet cleaning.....	24 36	
		<hr/> \$ 2,810 55

SUMMARY.

Bridges.....	\$32,625 20½	
Lighting account.....	60,377 35	
Superintendents of improvements.....	1,079 50	
Other employes.....	6,150 52	
City Hall expenditures.....	2,193 76	
Mayor's and Board of Improvements' office.....	358 72	
Pounds.....	4,712 40	
Catch-basins and sewers.....	61 56	
Pavement repairs.....	2,465 00	
Cuyahoga river account.....	739 21	
Armory account.....	411 67	
Market account.....	178 85	
Miscellaneous.....	2,810 55	
		<hr/>
Grand total.....		\$114,164 35½

It appears that the above total is in excess of the expenses of 1880, of \$63,252.00, but deducting the lighting account of \$60,377.35, which did not appear in the expenses of the Board in 1880. The increase was only \$1,875.65.

All of which is respectfully submitted. By order of the Board of Improvements.

M. M. HOBART,
Clerk.

ANNUAL REPORT
OF THE
STREET COMMISSIONER,
OF THE
CITY OF CLEVELAND,
FOR THE
YEAR ENDING DECEMBER 31, 1881.

REPORT OF THE STREET COMMISSIONER.

To the Honorable Board of Improvements :

GENTLEMEN :—I have the honor to submit herewith the annual report of the Street Department for the year ending December 31st, 1881.

The present contracts for cleaning paved streets are at the following rates per mile for each time cleaned:

Section 1, West Side, L. Brennan, Contractor,	- -	\$29.00
“ 2, First seven wards, L. Brennan, Cont'r,	- -	32.00
“ 3, 15th, 16th and 17th wards, S. Beckwith, Cont'r		24.00
“ 4, 14th and 18th wards, S. Beckwith,	-	27.00

The contracts for cleaning, rounding up and surfacing unpaved streets are at the following rates per mile: Section 1, \$28; Section 2, \$28; Section 3, \$24; Section 4, \$26.

For furnishing earth filling 30c; and 20c excavation 32c, 30c, 20c, and 25c; gravel, 40c and 50c; black cinder, 40c; furnace cinder, 50c and 45c per cubic yard.

Cleaning crosswalks at other times than when the street is cleaned, 7, 9, 12, and 10 cents each.

The catch basins of the city have all been cleaned by contract, the present contract price being \$2,400 for one year.

Repairs to stone and wood pavements, to box drains and sluices, the flushing of sewers and puddling, has all been done by men employed by the day, and also the greater part of the work of repairing cross walks and catchbasins has been done in the same manner.

A large number of excavation permits have come to this department from the Clerk of the Board of Improvements during the year. These give the parties taking them out the right to open a street for the purpose of putting sewer, water, or gas pipes in, or for other purposes, as may be specified. All of these excavations have been looked after, the pavement and street repaired and placed in good condition by men employed by the day and the cost charged up to the parties taking out the permit.

This class of work has required supervision, and the employment of a force of men and teams constantly. Four thousand, nine hundred and seventy-two dollars and thirty-two cents has been collected from this source during the year, and, while not paying the entire cost, the present system has resulted in better protection to the public from the carelessness of sewer builders and plumbers in leaving bad holes in the street as was done formerly.

The expenses of the department for 1881 as given by the Auditor's annual report were \$73,411.38. This was for the fiscal year and includes the following items not attached to this report: Broadway culvert, \$764.56; repairs of concrete pavements, \$2,465.00; miscellaneous bills, \$671.68; total amount not under charge of Street Commissioner, \$3,901.24; collections for street repairs, etc., \$7,042.80; total amount, \$10,944.04 deduct difference between bills of December, 1880, and December, 1881, \$1,064.81; \$9,879.23. Ordinary expenses of 1881 paid from street fund, \$63,532.15.

I beg leave here to report again my opinion that the amount is totally inadequate to the needs of 425 miles of streets, 80 miles of sewer and 1,800 catch basins.

As will be seen by the accompanying tables, \$10,293.17 was expended for labor on repairs to pavement, this added to cost of stone and wood blocks, cinder and other material used for repairs would probably give a total of about \$15,000 expended to prevent accident on our rotten paved streets.

This money has been literally thrown away as far as giving any substantial or permanent relief is concerned, but has answered the purpose of preventing accident to life and property.

What is needed is new pavement on nearly all old paved streets, and also on many streets which have not heretofore been paved.

Unpaved streets where there is heavy travel cannot be kept in good condition, and the sooner we acknowledge the fact that all the streets of this city in the thickly settled portions must be paved to be kept in even passable condition the earlier will be the period when we shall have passable streets at all seasons of the year.

The work of the Street Department is given in detail in the accompanying tables, for which I would respectfully ask a careful perusal.

Table No. 1 gives all work on paved streets.

" " 2 " Street Commissioner's work on unpaved streets.

Table No. 3. gives contract work on unpaved streets.

"	"	4,	"	work on sewers,
"	"	5,	"	work on catch basins.
"	"	6,	"	work on crosswalks.
"	"	7,	"	work sheathing bridges.
"	"	8,	"	lumber account.
"	"	9,	"	stone account.
"	"	10,	"	miscellaneous bills.
"	"	11,	"	salaries.
"	"	12,	"	summary.
"	"	13,	"	inventory.

Respectfully submitted,
FRANK RIELEY,
Street Commissioner.



TABULAR STATEMENTS.



1

2

TABLE No. 4.

REPAIRING SEWERS.

Ansel avenue at Superior street.....	\$ 8 50
Beckwith avenue.....	47 70
Canal street at Seneca street.....	24 90
Cedar avenue, east of Doan street.....	9 15
Cedar avenue, west of Doan street.....	194 00
Central Place.....	14 00
Cleve street at Sibley street.....	2 88
Commercial street.....	20 20
Detroit street at Hanover street.....	2 12
Detroit street, west of Kentucky street.....	28 52
Doan Street at Cedar avenue.....	6 48
Dodge street.....	48 04
Euclid avenue at Convent.....	15 90
Euclid avenue at Cornell street.....	3 85
Fairmount street.....	77 50
Fountain alley.....	16 16
Garden street.....	1 87
High street at Middle street.....	33 25
Jefferson street.....	63 00
Kentucky street at Whitman street.....	27 05
Kinsman street at end of pavement.....	413 80
Kinsman street at C. & P. R. R.....	46 50
Lake street.....	4 00
Lake street at Alabama.....	1 00
Minnesota street at St. Clair street.....	29 75
Ontario street.....	90 05
Pearl street.....	3 62
Perry street, near Superior street.....	7 75
Public Square at Superior street, south-east corner.....	3 02
Ridge road.....	16 20
River street at Front street.....	3 00
Scranton avenue.....	16 80
Scranton avenue, near Fairfield street.....	26 70
Scranton avenue, near N. Y. P. & O. R. R.....	8 47
St. Clair street at Aaron street.....	18 75
St. Clair street at No. 447.....	4 18
St. Clair street at Sterling avenue.....	4 68
St. Clair street at north-east corner Madison avenue.....	66 75
St. Clair street, between Munich and Armitage.....	3 00

Seneca street at Long street	12 75
Superior street at Viaduct.....	24 02
Upper Central Way.....	20 95
Union Lane.....	20 20
Water street at No. 82.....	10 65
Wason street at Payne avenue....	2 00
Willson avenue.....	38 7 ⁵
Willson at Kingsbury Run (culvert).....	580 70
	<hr/>
	\$2,127 46

TABLE No. 5.

CATCH BASIN REPAIRS.

Ansel avenue at Superior street	\$ 20 57
Bank street at Water street.....	6 50
Bridge street at Liberty street.....	4 80
Canal street at Seneca street....	8 80
Charles street at Putnam street.....	12 05
Case avenue at Woodland avenue.....	26 00
Case avenue at Sibley street	10 70
Cedar street at Grant street.....	9 75
Cedar street at S. Logan street.....	6 82
Center street at Merwin street.....	10 35
Clifton street at St. Clair street.....	18 07
Cross street at Fourth street.....	6 50
Forest street, 150 feet north of Scovill avenue.....	10 31
Garden street at Forest street.....	11 60
Garden street at Laurel street.....	9 70
Garden street at Maple street.....	10 78
Garden street at First street	28 67
Garden street near North place.....	7 81
Harkness avenue at Hough avenue.....	18 22
Hamilton street at Muirson street.....	3 00
Kinsman street at Woodland Hills avenue....	38 30
Milford street at Clark avenue.....	10 35
Lake street.....	4 00
Lorain street at Randall street.....	10 87
Lorain street, between Gordon avenue and Chestnut Ridge road.....	87 00
Lorain street.....	1 56
Lorain street at Chestnut Ridge road.....	6 70
St. Clair street.....	7 75
St. Clair street at Lawrence street.....	11 53
St. Clair street at Muirson street.....	64 00

St. Clair street, No. 455.....	13 40
Sterling avenue at Garden street.....	20 25
Seneca street.....	7 00
Scovill avenue at Putnam street.....	10 00
Scovill avenue, between Perry street and Chapel street.....	54 40
Superior street at Erie street.....	9 81
Superior street.....	18 00
Webster street at Brownell street.....	9 55
Willson avenue at Kingsbury Run.....	59 40
Willson avenue at St. Clair street.....	10 48
Willson street at Julia street.....	9 75
To cleaning and repairing by Street Commissioner.....	133 26
	<hr/> \$837 81

TABLE No. 6.

CROSSWALKS—NEW, AND REPAIRS TO OLD.

Barber street at Mill street.....	\$ 35 45
Case avenue at Orange street.....	27 09
Cedar avenue at Cleve street.....	30 88
Clinton street.....	8 75
Clinton street at Duane street.....	24 50
Church street at Duane street.....	24 64
Church street.....	10 12
First alley on Birch street, south of Franklin avenue.....	8 48
First alley on Abbey street, east of Columbus street.....	2 14
Garden street at Bayne street.....	16 00
Gordon avenue at W. Madison avenue.....	79 06
Hanover at Clinton street.....	2 28
Horace street at Willet street.....	25 48
Lorain street at Smith street.....	2 50
Pearl street at Kinkle.....	6 30
Prospect street at Middle street.....	6 00
Rockwell street at Bond street.....	13 50
Seymour avenue at Mill street.....	16 21
Superior street at Hoadley street.....	28 98
Superior street at Lawrence street.....	78 38
Superior street at Waring street.....	74 55
Taylor street.....	11 25
Vega avenue at Hitchcock street.....	62 90
Waverly avenue at Bayne street.....	24 20
West Madison avenue at Aspen street.....	49 77
Willson avenue at Ensign street.....	42 10
	<hr/> \$711 61

TABLE No. 7.

SHEATHING BRIDGES.

Center street bridge.....	\$ 32 68
Columbus street bridge.....	61 50
Commercial street bridge.....	6 64
Factory street bridge.....	22 25
Jefferson street bridge.....	82 39
Lower Central Way bridge.....	66 62
Main street bridge.....	47 27
Merwin street bridge.....	7 50
Mill street bridge.....	15 03
Seneca street bridge.....	222 52
South Water street bridge.....	32 00
Upper Central Way bridge.....	75 72
Walworth Run bridge.....	87 57
Willow street bridge.....	60 24
Winslow street bridge.....	13 03
	<hr/>
	\$892 94

TABLE No. 8.

LUMBER ACCOUNT.

Bridges.....	\$1,276 34
Streets.....	3,025 60
	<hr/>
	\$4 301 94

TABLE No. 9.

STONE ACCOUNT.

Crosswalks.....	\$ 646 77
Paving, etc.....	1,145 48
Filling, etc.....	211 29
	<hr/>
	\$2,003 54

TABLE No. 10.

MISCELLANEOUS BILLS.

City yard janitor.....	\$ 435 75
Sharpening picks, etc.....	134 32
Hardware.....	393 78
Stationery and printing.....	15 22
Supplies and coal.....	63 25
Rent of telephone.....	15 84

REPORT OF STREET COMMISSIONER.

247

Tar.....	15 00
Cement.....	108 65
Hose and coupling.....	75 00
Police badges	24 75
Brick	88 00
Cleaning market grounds.....	380 18
Repairs on pounds.....	14 76
	<hr/>
	\$1,764 45

TABLE No. 11.**SALARIES OF OFFICERS.**

Street Commissioner.....	\$2,500 00
Assistant Street Commissioner.....	1,200 00
Superintendent of Catch Basins	910 25
Superintendent of Repairs	1,084 75
Superintendents of Streets.....	1,466 00
Inspectors of Streets.....	1,739 75
Clerk.....	700 00
	<hr/>
	\$9,550 75



TABLE No. 13.

INVENTORY OF TOOLS AND MATERIAL ON HAND JANUARY 1st, 1882
STREET DEPARTMENT—OFFICE.

Atlas.....	1
Brooms.....	8
Chairs.....	11
Feather duster.....	1
Ink stands.....	6
Lamps.....	2
Lanterns.....	10
Lumbermens' rules.....	2
Maps of City of Cleveland.....	2
Mops.....	2
Office desks.....	6
Police badges.....	8
Pairs rubber boots.....	3
Sprinkling pots.....	4
Mirror.....	1
Stoves.....	2
Towels.....	4
Water pails.....	3
Wash stand.....	1
Water cooler.....	1
Augurs.....	2
Blacksmiths' tongs.....	1
Brass nozzle.....	1
Black Board.....	1
Crowbar s.....	5
Chisel.....	1
Claw hammers.....	2
Feet of garden hose.....	35
Grind stones.....	2
Gutter lines.....	2
Hatchets.....	5
Hand saws.....	3
Hoes.....	7
Hand axes.....	2
Iron vise.....	1
Ice cutters.....	4
Iron wedge.....	2
Level.....	1
Leather nozzle.....	1
Maddocks.....	4

Oil cans.....	3
Pavers' pounders.....	2
Pulley.....	1
Picks.....	20
Pike pole.....	1
Rake.....	1
Stone hammers.....	3
Stone hammer handles.....	2
Stone pick.....	1
Shovels.....	7
Sledge.....	1
Steel squares.....	2
Spike mall.....	1
Screw driver.....	1
Section hose.....	8
Tool chests.....	2
Tamping bars.....	2
Wooden Mallets.....	2
Wrenches.....	4

MATERIAL ON HAND.

Cords Medina paving stone (old)	11
Pieces Medina platform stone (old)	8
Lineal feet Medina crosswalk (old)	54
Lineal feet Berea crosswalk (old)	84
Pieces iron man-hole plates (old)	5
Lineal feet Medina crosswalk (New)	312
Iron platforms (old)	5
Pieces twelve inch sewer pipe (old)	18
Pieces eight inch sewer pipe (old)	8
Piece catch-basin trap (old)	1
Cedar posts,	4
Feet two by eight pine plank,	866
Feet two by twelve pine plank,	600
Feet three inch oak plank,	500

ANNUAL REPORT

OF THE

PARK COMMISSIONERS,

OF THE

CITY OF CLEVELAND,

FOR THE

YEAR ENDING DECEMBER 31, 1881.



ANNUAL REPORT

OF THE

BOARD OF PARK COMMISSIONERS.

OFFICE BOARD OF PARK COMMISSIONERS,)
CLEVELAND, January 1st, 1882. (

To the Honorable City Council :

GENTLEMEN :—The Board of Park Commissioners herewith transmit to your Honorable Body its report for the year ending December 31st., 1881:

The condition of the Park Fund is shown by the following exhibit:

To balance to the credit of the Fund January 1st, 1881.....	\$2,481 33
To amount received from proceeds of the tax levy	7,217 21
	<hr/> \$9,698 54
By disbursements for the year	8,947 09
	<hr/>
Balance to credit of the Fund, January 1st, 1882	751 45

The following is an exhibit in detail of the disbursements for the year:

	Labor account.	Permanent Improvements.	Current Expenditures.
Monument Square.....	\$1,605 23	\$449 57	\$322 43
Lake View Park.....	2,742 27	55 63	210 95
Clinton Park	668 70	207 95	28 85
South Side Park.....	1,119 90	189 09	33 06
Franklin Circle	709 00	132 25	35 10
Miles Park.....	99 00		38 11
General account	300 00		
Totals.....	\$7,244 10	\$1,034 49	\$668 50

Considerable labor was devoted, during the summer, to the improvement of South Side Park, in the laying out of walks, in leveling up the surface, planting trees and erection of a drinking fountain; aside from this, but little in the direction of permanent improvements has been undertaken during the past year. The entire expenditures, under this head, amounting to but \$1,034.49, and was devoted mainly to relaying and improving the walks in Monument Square, Clinton Park and Franklin Circle, and in the erection of drinking fountains in Lake View Park, Clinton Park and South Side Park.

The Board has in contemplation the erection of an "Oratorium" or speaker's stand in the northeast section of Monument square, which will take the place of the wooden structure now in that locality; plans and specifications have already been prepared and work will be commenced as early as the season will admit. The section of the square in which the

Oratorium will be erected will be remodelled with a view to the better accommodation of the multitudes which from time to time assemble in that locality.

Beyond this no extensive improvements are had in contemplation.

A. EVERETT,
J. H. WADE,
J. H. SARGENT,
Park Commissioners.

W. H. ECKMAN,
Secretary..

TWENTY-SIXTH
ANNUAL REPORT
OF THE
BOARD
OF
TRUSTEES OF WATER WORKS
TO THE
CITY COUNCIL,
TOGETHER WITH THE
REPORTS OF THE OFFICERS OF THE BOARD,
FOR THE YEAR 1881.

REPORT OF

TRUSTEES OF WATER WORKS.

To the Honorable Mayor and Council of the City of Cleveland :

GENTLEMEN :—The addition to the pumping works by which the delivery capacity will be increased about 25 per cent. is so nearly completed that it can be used as occasion may require as will be seen by the report of the Superintendent and Engineer. The cost has been about \$20,000 less than the estimate.

The quantity of distribution pipe laid the past year was unusually large, but not equal to the demand, a large number of petitions for pipe that it would have been desirable to lay had to be carried over to the present year, for the reason that they were presented too late in the season. The indications at the present time are that the quantity of pipe that will be required during the coming season will exceed that laid last year.

We would call your attention to the recommendation of the Superintendent and Engineer to lay large feeding mains in the different parts of the city named in his report. As stated by him the laying of such pipe has been neglected in the past on account of the small amount of funds at the disposal of the department and the desire on the part of the different Boards in the past to extend water privileges to new territory. We believe the laying of such mains cannot be longer delayed with-

out doing injustice to water takers and working injury to this department.

The excessive cold of the winter months of the beginning of the year followed by the long drouth in summer operated to increase the daily average supply of water throughout the year to an extent that would have been alarming to cities less fortunately situated. As will be seen in the accompanying report the increase in the consumption of water over the preceding year was over 30 per cent.

During the summer months we found it necessary for the protection of such persons as depend upon a maximum and uniform pressure of water in their business to prohibit the use of hand hose during business hours, and shall hereafter continue to enforce the rule restricting the use of water for sprinkling yards, lawns or streets, and washing windows or pavements with hand hose to two hours in the morning and two hours in the evening.

We shall continue to apply meters in the future as we have done in the past, believing that method of preventing the wasteful use of water to be the only one offering any remedy for the great evil so prevalent in all American cities. We cannot believe that any such quantity of water as was pumped last year could be used for any useful purpose. It will be seen by the following tables that the average use for the year amounted to 76½ gallons daily for each person in the city and to 162 gallons daily for each consumer.

The plan for supplying water to the elevated sections of the city laying to the south and east and at the same time improving the present low service system having been brought to your notice and having received your cordial support the only question remaining to be decided is the location of the reservoirs. When these locations shall have been definitely determined upon it is our desire that the work may be prosecuted to completion as fast as may be consistent with economy and the best interests of the city. To this end we ask that there may be no

unnecessary delay in furnishing the funds required to carry out the work as contemplated, that our fellow-citizens in all parts of the city may enjoy the benefits attending a bounteous supply of pure water.

All of which is respectfully submitted.

TRUMAN DUNHAM,	}	<i>Trustees of Water Works.</i>
S. W. SESSIONS,		
WM. H. LUTTON,		

CLEVELAND, March 28, 1882.

SECRETARY'S REPORT.

To the Board of Trustees of Water Works :

GENTLEMEN :—I hereby respectfully submit my report as secretary for the year 1881.

Receipts for water including permits, less

amount refunded, is - - - \$236,221 87

The net amount of expenses and repairs is - 65,016 26

Leaving the net earnings - - - \$171,205 61

The comparative amounts with the previous year are :

Increase of receipts for water - - \$33,843 95

Increase of expenses and repairs - - 9,101 37

Increase of net earnings - - - \$24,742 58

The increase of expenses and repairs is distributed among the accounts as follows :

Increase of office and general expenses - \$ 310 65

Increase of expenses at engine house - - 8,500 78

Increase of repairs - - - 289 94

\$9,101 37

The receipts and disbursements of cash for the year, including balances, as shown by the books of this office are as follows :

RECEIPTS.

For water from assessments.....	\$136,270 09	
For water by meter measure	95,855 66	
For permits (in water rent account)	4,614 00	\$236,739 75
On construction account.....	509 00	
On pipe extension account.	2,821 40	
On water meter account	94 00	
On office and general expense account	883 34	
On general repairs account.....	286 93	4,574 67
Cash in office at last report.....	802 69	
Cash in City Treasury at last report	39,745 67	40,548 36
		\$281,862 78

DISBURSEMENTS.

For pipe extension	\$79,244 08	
For payments on new engine and boilers	43,167 94	
For payments on new boiler house.....	23,079 22	
For aqueduct extension and pump wells	9,545 25	\$155,036 49
For office and general expenses.....	21,684 57	
For general repairs ..	8,308 32	
For expenses at engine house	35,008 96	
For repairs at engine house	561 68	68,166 53
For returned water rent		517 88
For water meters		5,343 33
Cash in office January 1, 1882	1,541 81	
Cash in City Treasury subject to draft January 1, 1882...	53,256 74	54,798 55
		\$281,862 78

The items of receipts other than those embraced in water rent account included in the foregoing statement of receipts are :

Jan.	Valley railway, for laying water pipe	\$ 345 40
	Smith & Connor, for making connection	6 00
	Standard Oil Co., " "	36 62
	E. C. Griffith, for rent of rooms	38 00
Feb.	Lake Shore Foundry, for scrap iron	686 34
	" " " for rejected pipe....	452 63
	Cleveland & Pittsburgh R'y Co., for repairing pipe.....	6 75
	" " " for repairing hydrant...	4 00
	" " " for repairing pipe...	5 28
	" " " " "	3 50
March	Cleveland Rolling Mill Co. for repairing pipe.....	5 00
	W. O. Donnell, for three old boilers.....	500 00
	F. & H. Born, for making connection.....	18 82
	E. C. Griffith, for rent of rooms.....	25 00
	W. R. Anderson, for old cement pipe.....	3 00
April	H. J. Ready, for making connection.....	62 50
	" " "	127 15
	" " "	98 53
	" " "	77 17
	W. G. Boyer, " "	116 63
	Wilcox, Treadway & Co., for moving hydrant.....	17 30
May	E. C. Griffith, for rent of rooms	40 00
	C. & P. Railroad Co., for making connection.....	137 41
June	J. Cawthra, for old cement pipe.....	6 00
	C. C. Dewstoe, for making connection.....	7 88
	E. C. Griffith, for rent of rooms	37 00
July	Scofield, Shurmer & Teagle, for making connection.	64 74
	W. G. Boyer, for making connection.....	72 73
	First Baptist Church, for making connection	17 95
August	C. C. & I. Railroad, for repairing leak.....	4 25
Sept.	V. C. Taylor, for rent of rooms.....	83 34
	W. E. Preston, for water meter	42 00
	E. I. Baldwin, for making connection	48 84
	Smith & Connors for water meter.....	52 00

Sept.	Strong, Cobb & Co., for repairing leak.....	6 23
	Cleveland Malleable Iron Co., for making connection.....	47 98
Oct.	V. C. Taylor, for rent of rooms.....	100 00
	Cleveland Transportation Co., for rent of dock.....	40 00
	Cleveland Rolling Mill Co., for rent of dock.....	500 00
	A. H. Heflebower, for 220 lbs. scrap iron.....	3 04
Nov.	J. Krause & Co., for making connection.....	94 23
Dec.	H. J. Ready, for making connection.....	96 71
	Republic Refining Co., for making connection.....	39 00
	Geo. Kelley, for making connection.....	14 17
	Scofield, Shurmer, & Teagle, for making connection.....	8 18
	Woods, Perry & Co., for making connection.....	28 72
	Smith & Connors, for making connection.....	53 25
	" " " ".....	61 16
	Lowering services for the year.....	187 00
		<hr/>
		\$ 4,574 67

LEDGER BALANCES JANUARY 1, 1882.

Face of Ledger.	Debit.	Credit.
Construction.....	\$2,792,534 92	
Interest.....	121,984 59	
Water Meters.....	20,161 51	
City Treasurer.....	53,256 74	
Cash.....	1,541 81	
Water rent income.....		\$1,216,408 31
Bonds redeemed.....		925,000 00
Bonds outstanding.....		800,000 00
City of Cleveland.....		48,071 28
	<hr/>	<hr/>
	2,989,479 57	2,989 479 57

STATEMENT OF ACCOUNT WITH CITY TREASURER.
DEPOSITS.

January 10	\$ 500 25	May 4	3,054 97	June 8	754 44
" 14	138 00	" 5	1,616 91	" 9	1,573 50
" 24	158 03	" 6	1,466 55	" 10	685 24
February 8	2,060 52	" 7	474 83	" 13	523 77
" 17	300 11	" 9	3,698 73	" 14	1,358 72
March 9	919 55	" 10	6,118 53	" 15	418 01
" 23	207 97	" 11	1,458 56	" 16	349 08
April 8	2,432 66	" 12	2,046 99	" 18	373 56
" 9	637 82	" 13	1,766 87	" 20	349 57
" 11	515 00	" 14	1,618 45	" 21	380 96
" 12	809 69	" 16	2,269 02	" 22	172 23
" 13	521 87	" 17	2,376 75	" 23	249 84
" 14	861 86	" 19	1,890 68	" 24	845 04
" 14	2,349 60	" 19	2,770 05	" 25	202 01
" 15	1,212 13	" 20	1,893 70	" 28	463 97
" 16	1,198 01	" 21	2,592 67	" 30	145 14
" 18	1,841 48	" 21	528 45	July 1	119 44
" 19	1,192 32	" 23	1,903 86	" 2	738 42
" 21	1,135 95	" 24	1,568 00	" 9	295 50
" 21	1,954 25	" 25	1,074 93	" 11	1,184 47
" 22	1,262 70	" 26	1,252 17	" 14	221 85
" 23	1,665 67	" 27	862 49	" 21	371 09
" 25	1,587 31	" 28	1,565 87	" 22	154 72
" 26	2,362 55	" 31	1,099 70	August 5	3,661 04
" 27	1,866 66	June 1	1,026 73	" 10	1,070 94
" 28	4,443 18	" 2	2,201 70	" 12	202 00
" 29	2,122 22	" 3	1,415 57	" 15	433 00
" 30	3,361 94	" 4	510 03	" 20	238 34
May 2	4,847 32	" 6	597 96	" 31	479 50
" 3	3,033 85	" 7	628 48	Septem'r 9	1,061 00

DEPOSITS—CONTINUED.

Septem'r 13	244 00	October 27.....	1,933 71	Novem'r 22.....	1,188 12
" 21	405 24	" 28	2,143 95	" 25	792 15
" 22	580 93	" 29	6,324 36	" 26	642 81
October 3.....	892 50	" 31	6,393 81	" 28.....	1,015 64
" 4.....	530 23	Novem'r 1.....	5,609 17	" 29.....	2,408 21
" 5	467 02	" 2	5,198 68	" 30	1,142 48
" 8.	2,115 87	" 3... ..	4,595 02	Decem'r 1... ..	2,255 10
" 10.....	635 18	" 4	3,520 74	" 5.	4,701 45
" 11.....	703 75	" 5... ..	3,177 23	" 7	904 84
" 12.....	448 77	" 7	1,628 57	" 9.....	1,127 32
" 13... ..	1,835 11	" 8	1,113 24	" 9... ..	488 45
" 14.....	724 08	" 9	885 39	" 10	687 20
" 15.....	501 38	" 10... ..	9,013 79	" 12.....	644 17
" 16.....	3,994 83	" 11.....	2,633 38	" 14.....	870 62
" 18	1,219 22	" 12	1,741 25	" 16	482 22
" 19... ..	2,001 53	" 14	3,698 61	" 17.....	1,218 41
" 20... ..	1,147 71	" 15... ..	2,335 76	" 20.....	212 00
" 21.....	1,486 74	" 16	1,429 23	" 21	360 66
October 22... ..	1,437 83	" 17.....	1,866 94	" 24	338 12
" 24.....	1,759 26	" 18.....	1,767 81	" 31.....	442 98
" 25.....	2,619 18	" 18... ..	678 48	" 31	1,927 18
" 26.....	1,467 02	" 21	1,290 52		
				Total Deposits. \$240,057 42	
Cash in City Treasury January 1, 1881				39,745 67	
				\$279,803 09	

ORDERS DRAWN ON CITY TREASURY FOR MONTHLY DISBURSEMENTS.

1881.

January.....	\$ 8,045 42	
February.....	6,327 95	
March.....	16,380 41	
April.....	9,483 97	
May.....	19,298 23	
June.....	30,917 33	
July.....	21,955 52	
August.....	23,825 03	
September.....	22,769 18	
October.....	26,813 56	
November.....	27,822 70	
December.....	12,906 96	
Total amount of orders.....		\$226,546 35
Balance in City Treasury subject to draft January 1, 1882.		53,256 74
		<hr/> \$279,803 09

For a detailed statement of disbursements, reference may be had to the report of the Superintendent and Engineer.

BONDS.

One hundred thousand dollars of water bonds due January, 1881, were paid from the Sinking Fund for that purpose. Three hundred thousand dollars of water bonds held by the Sinking Fund Commissioners due in 1884 have been cancelled and filed with the City Auditor, leaving now outstanding eight hundred thousand dollars for the payment of which no special provision has been made.

Yearly receipts for water and the expenditures for running expenses and repairs from the introduction of lake water into the city until the present time. Also the earnings after deducting such expenditures.

Years.	Receipts for water.	Running expenses.	Repairs.	Receipts less running expenses and repairs.
1856 to 1859.....	\$34,528 73	\$29,845 49	\$ 2,996 08	\$ 1,687 16
1860.....	16,793 00	7,683 80	1,734 38	7,375 42
1861.....	17,097 85	7,768 36	1,350 84	7,978 65
1862.....	22,730 53	8,086 19	1,291 29	13,353 00
1863.....	23,421 30	10,011 96	835 54	12,573 85
1864.....	33,389 49	13,573 26	1,953 00	17,862 74
1865.....	40,888 01	17,346 56	1,382 21	22,159 24
1866.....	45,363 70	14,277 13	8,618 77	22,267 80
1867.....	51,862 45	14,246 06	3,685 79	33,930 60
1868.....	57,297 08	17,304 32	3,653 43	36,340 23
1869.....	62,869 72	18,880 13	3,299 56	40,690 03
1870.....	70,411 18	19,725 24	9,823 99	40,861 95
1871.....	80,487 44	24,382 16	10,155 33	45,949 95
1872.....	90,243 96	26,967 65	6,953 49	56,323 82
1873.....	106,431 00	38,216 30	3,673 07	66,539 63
1874.....	116,433 08	48,951 79	9,515 99	57,965 30
1875 ^a	114,802 13	57,830 17	11,566 28	45,205 70
1876.....	140,935 87	51,481 59	15,966 86	73,487 42
1877.....	152,794 63	50,571 46	20,673 36	81,549 86
1878.....	160,125 70	47,183 44	22,453 91	90,488 35
1879.....	182,173 33	44,616 59	11,182 61	126,374 13
1880	202,377 92	47,618 76	8,296 13	146,463 03
1881.....	236,221 87	56,430 19	8,586 07	171,205 61

^a for ten months.

By reference to the foregoing table it will be seen that the annual increase of receipts for the year exceeds any previous one. This increase is especially satisfactory as it has been ob-

tained after a material reduction in the charge for water for street sprinkling. I anticipate that there will be also a large increase of receipts for water in the year 1882 while the expenses may but little exceed that of the year 1881.

Respectfully submitted,

H. C. HAWKINS,

Secretary.

Cleveland, March 28, 1882.

REPORT OF THE
SUPERINTENDENT AND ENGINEER.

To the Board of Trustees of Water Works :

GENTLEMEN :—I herewith submit the twenty-sixth annual report upon the condition of the Water Works.

LAKE CRIB.

No perceptible change has taken place in this structure since my last report. The experience with ice last winter has made it necessary, to insure an uninterrupted supply of water, that the keeper should remain at his post throughout the year. The rooms occupied by him have, therefore, been floored and sealed to make them suitable for winter occupation. No other repairs have been necessary. No steps have been taken yet to rebuild the superstructure, but the work cannot be delayed much longer with safety. I would recommend that during the coming summer the necessary action be taken to provide for its thorough repair.

TUNNEL.

Twice during the year the water from the river has reached the crib and mingled with the supply drawn to the pumps, both times during freshets in the river. The first time in March, when the ice in the river broke up and run out while the lake was still covered with solid ice. On this occasion the water was contaminated for three days. The second period of contamination was in December, and was of longer duration than the first, lasting about five days. It occurred, as in March, during a heavy freshet in the river accompanied by a contin-

uous easterly wind that diverted the natural current of the lake and carried it to the westward. With these exceptions the water has been pure as could be desired.

BUILDINGS.

The south building has not required any repairs during the year. The tin roof of the Cornish engine house and the covering of the stand pipe tower have been painted and the gutters on the engine house and boiler houses have been thoroughly repaired and cemented where necessary. These buildings are all in good repair externally. The stairs leading to the top of the stand pipe are still in the condition I reported them last year. The contemplated change in that building made it advisable to defer immediate action.

The new boiler house, chimney and work shop have been completed in a substantial and satisfactory manner. The room now occupied by the new Worthington engine, formerly the east boiler room for the Cornish engines, has been fitted up and painted in a tasty manner and connected with the Cornish engine room by an arched opening twelve feet wide and twelve feet high. The floors are on the same level. By this arrangement the two Cornish engines and the new Worthington engines are practically in the same room, and when it becomes necessary to add another engine it can be placed in the West Cornish boiler room and the rooms connected in the same manner. These rooms are each twenty-eight feet by fifty feet in the clear and afford ample space for a ten million gallon pumping engine.

The dimensions of the new boiler house, inside, are as follows: Length 84 feet 6 inches, width 45 feet 4 inches, height to top of ventilators 40 feet 3 inches, height of chimney 136 feet, diameter of flue inside 6 feet; machine shop, length 52 feet 9 inches, width 17 feet 2 inches; blacksmith shop, length 26 feet 3 inches, width 18 feet 6 inches. The rooms with the basements under them afford conveniences for work and storage never before possessed by this department. The new

boiler house contains six boilers, three of them of the marine type, 10 feet in diameter and 20 feet long. Two of them will run the new engine up to its full capacity, leaving one out of use at all times. The three others are of the Cornish type, each 6 feet in diameter and 30 feet long. Two of them will furnish steam for running either of the Cornish engines.

The manner of setting the marine boilers both in the new house and the south boiler house is novel and calculated to produce the best results from the fuel used, and is therefore, worthy of description. These boilers, like others of their type, have two flues extending from the back end of the fire-box to a combustion chamber near the rear end, which combustion chamber is also connected with the back ends of the small tubes leading thence to the tube heads near the front ends where the smoke and gases would, according to the usual plan of setting, be discharged into pipes leading to the chimney. Such boilers are usually encased in sheet iron, forming an air space around them or else covered with some non-conducting material to prevent radiation of heat.

Our marine boilers are set in separate chambers the sides and ends of which are formed of hollow walls of brick. The roof of the chambers is made by placing wrought iron I beams across the walls and covering them with cast iron plates. These plates are covered with non-conducting plaster.

The smoke and gases instead of being conducted to the chimney from the front end of the boilers in pipes are discharged into the chambers and envelope the boilers in their passage to the main flue at the rear. The openings from the chambers to the main flue are at the bottom and are provided with the usual damper grates for regulating the draft. A space of two feet is left around each boiler, excepting at the front end, which sets even with the front face of the wall. Iron doors through the front wall gives access to the chambers.

The advantages obtained by this method of setting are : First, the short time required to cool off the boilers to give access to the chambers for repairs or cleaning; second, the ready access

afforded to all parts of the shell for making repairs without removing covering or brickwork; third, the thorough protection against radiation of heat, and the retention of the hot gases near the top of the boiler until by cooling they fall and pass into the main flue near the floor line. No interruption of the draft is noticed, and contrary to expectation, but little soot forms on the shells or in the flues where proper bridge walls are used.

NEW AQUEDUCT AND PUMP WELLS.

As a part of the work of increasing the water supply it became necessary to build a branch aqueduct with suitable pump wells and gate-wells, and to connect it to the one leading to the pumps in the south building. It was believed that the old aqueduct would be found so nearly water tight that a junction could be made with it without encountering much difficulty from water excepting such as might naturally be expected in the quicksand soil in which the work was built, but, before the trench had been fully excavated down to the main aqueduct, the quantity of water that appeared dispelled any such hope, and it was found that the connection could not be made unless some plan could be devised for stopping the leaks without interfering with the supply of water to the pumps in the south building. The aqueduct is five feet in diameter and the bottom twelve feet below the water surface.

The gates in the main aqueduct were closed so as to pass only sufficient water to supply the daily requirements of the city, but it was found that the leaks were even then too strong to permit the building of masonry in the trench. A lining of heavy sail cloth, having a diameter a little greater than that of the aqueduct and 100 feet in length was then prepared and with the aid of a submarine diver placed in the aqueduct, its center being at the junction and the ends fastened to the inside in such a manner as to prevent water from flowing outside of the canvas. This device effectually stopped the leaks and enabled the workmen to connect the masonry and remove the old

wall without difficulty. The canvas resisted the pressure of the water until it had served its purpose and was removed. A second pump well was built in connection with this work preparatory to placing another pumping engine in the west wing of the old building.

The new work of enlargement has cost to this date as follows: 30-inch pumping main 6,886 feet long, \$66,420.81; new boiler house, chimney and workshops, \$27,969.58; new ten million-gallon pumping engine and three marine boilers each 10 by 20 feet, including setting and fittings, steam and water pipes within engine room, and one feed pump, \$50,787.17; aqueduct gate-wells and two pump wells, \$9,545.52; making the total cost thus far, \$154,723.08. The final payment on the engine, due when it is accepted, is \$7,700. Bills outstanding and work remaining to be done to complete the improvement will not increase the total outlay to more than \$180,000, including 1,300 feet of 30 inch pipe to be laid in Superior street from Water street to the square. It is very gratifying to be able to report that the total cost will be not less than \$20,000 below my original estimate, which was \$200,000.

MACHINERY AND BOILERS.

For information concerning the condition of the different engines and boilers you are respectfully referred to the report of Mr. Doty, Chief Engineer of Pumping Works.

The new Worthington engines have been set in place and connected with the boilers, but are not yet completed, the cylinder covering and lagging being the only work unfinished. They have been run at different times, for the purpose of testing joints and adjusting valves and other parts, and give promise of being equal in all respects, and superior in some, to the one already in use.

RESERVOIR.

The only work, other than the care bestowed by the keeper in cutting grass, cleaning walks and removing weeds from the inner slopes, necessary in the way of repairs during the year

was the rebuilding of a portion of the fence on the Duane street front.

As it is proposed to abandon this property as soon as a new reservoir can be built, it is not advisable to do any more work than the proper care and protection of the property may require.

MAIN PIPES.

With the exception of the 24 inch main pipe running out Garden street, no pipe larger than 10 inches in diameter extends east to Willson avenue.

The 30 inch main extending from the pumping works to the intersection of Superior and Water streets should be continued to Willson avenue during the coming season, not only for the better supply of the eastern part of the city, but that the intervening district may not suffer during times of excessive use. I would also call your attention to the necessity of laying a 12 inch main through Forest street from the 24 inch pipe in Garden street, south to Broadway, a distance of 6,400 feet. This pipe would operate as a feeder for Scovill street, Woodland avenue, Croton street and Broadway.

Another section of the city, which from its rapid growth needs an immediate increase in its supply, is that lying south of Walworth Run, and west of the Cuyahoga river. There should be laid for the supply of this district, and for the general supply of the West Side, a 30 inch main running from the pumping works through Taylor street to Bridge street, and through Bridge street to Kentucky street, where it would be connected with the main of the same size laid in 1873, a distance of 5,750 feet. At the intersection of Taylor and Bridge streets the pipe should be reduced to 24 inches in diameter, and extend to Lorain street, a distance of 650 feet, where it would be connected with the 10 inch pipe in that street. From this point it should be reduced to 20 inches and extended south, a distance of about 4,000 feet to Clark avenue, here it would be connected with a 10 inch pipe and feed east and west,

and as the demand increases could be extended south to the south limits of the city. The great demand for water in the different sections of the city, particularly in the newer districts, with the limited amount of money at the command of the department, for use in laying pipe, has made it necessary to confine the annual outlay for pipe to the sizes that were appropriate for the streets in which they were laid, to the neglect of such pipes as were necessary as feeders. The time has now arrived when it is due to consumers, and when it will be to the interests of this department to lay such feeding mains as may be necessary to maintain a uniform pressure of water in all the newer parts of the city.

DISTRIBUTING PIPES.

There was added to the pipe system during the year 11 miles 2,399 feet of pipe for street distribution, making the total quantity now in use 126 miles 2,873 feet. The length of main pipe is 10 miles 2,746 feet, making a total of all sizes of 137 miles 339 feet.

The number of new stop gates set since December 31st, 1880, is 244. The total number in use December 31st, 1881, was 2,449.

Of fire hydrants 126 have been added during the year, which with those previously set makes the total number 1,124. During the year 10 were changed from 3 inch to 4 inch, and 1 from 3 inch to 6 inch.

For information in detail regarding the work above described see accompanying tables.

SERVICE PIPES.

The number of new service pipes connected with the distributing mains since December 31st, 1880, is 1,536, which added to the connections previously made, makes the total number 13,100. Of these 1,614 are not in use, some of them are permanently abandoned, others are not extended beyond the stop cock, and 200 are turned off temporarily. The increase in the number in use over 1880 is 1,473. The number in use on the last day of the year was 11,486.

CONNECTIONS MADE IN 1881.

$\frac{5}{8}$ inch	-	-	-	-	-	-	1,457
$\frac{3}{4}$ "	-	-	-	-	-	-	21
1 "	-	-	-	-	-	-	14
$1\frac{1}{4}$ "	-	-	-	-	-	-	3
$1\frac{1}{2}$ "	-	-	-	-	-	-	6
2 "	-	-	-	-	-	-	15
3 "	-	-	-	-	-	-	6
4 "	-	-	-	-	-	-	14

Total in 1881 1,536

TOTAL CONNECTIONS.

$\frac{5}{8}$ inch	-	-	-	-	-	-	12,321
$\frac{3}{4}$ "	-	-	-	-	-	-	414
1 "	-	-	-	-	-	-	122
$1\frac{1}{4}$ "	-	-	-	-	-	-	7
$1\frac{1}{2}$ "	-	-	-	-	-	-	28
2 "	-	-	-	-	-	-	99
$2\frac{1}{2}$ "	-	-	-	-	-	-	2
3 "	-	-	-	-	-	-	41
4 "	-	-	-	-	-	-	65
6 "	-	-	-	-	-	-	1

Total of all sizes, 13,100

METERS.

The number of meters added during the year was 85, making the total number in use 487. The different sizes and number of each size is as follows :

KIND OF METER.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	3 in.	4 in.	Total.
Worthington Piston.....	163	145	56	59	26	7	456
Ball and Fitts Piston.....	10	6	1				17
Fitts Rotary.....	3	1		1	2		7
Crown Rotary.....	3	4					7
Total.....	179	156	57	60	28	7	487

ELEVATORS.

The number of elevators operated by water power in use at this time is 53, of this number 11 have been added during the year ending December 31st, 1881.

The quantity of water measured by meters and hydraulic elevators was 815,602,500 gallons, being an increase of 160,185,838 gallons over the year 1880. The quantity now measured exceeds the total quantity pumped in 1868 by nearly 50 million gallons.

DISTRIBUTION.

The number of gallons of water pumped in 1881 was 4,847,209,363, an increase over the year 1880 of 1,121,526,342 gallons. The quantity pumped per day was 13,280,025 gallons, an increase over the daily average of 1880 of 3,100,564 gallons, or 15,000 gallons per day more than the total daily supply for the year 1870. The rate of increase over the year 1880 was 30.1 per cent., and is the largest increase since the year 1860. The cost of pumping each million gallons of water 100 feet high was \$4.69.

GENERAL.

From present indications the demand for pipe extension during the coming year will equal, if it does not greatly exceed that of last year. The number of new buildings being erected is greater than at any other time in the history of Cleveland; this fact, with the general condemnation of the wells of the city by the Board of Health and physicians, as the cause of many of the diseases so prevalent last fall, will, doubtless, cause a greater demand for lake water than ever before. The petitions for pipe carried over from last year, would, if granted, require the labor of two gangs of pipe layers for half the season, and the number of new petitions now being presented promise to make the coming year an exceedingly active one in this department.

The Board of City Improvements has advertised for proposals for repaving a number of the older streets, in many of these

it will be necessary to lower the water pipes, to render them secure against the action of frost during such winters as that of last year, in others it will be necessary to lay new pipes. The amount of money at your disposal for laying distributing pipe, and lowering pipe in streets to be improved, will be ample for the purpose if the quantity of pipe to be laid does not greatly exceed that laid last year.

Respectfully submitted,

JOHN WHITELOW,

Superintendent and Engineer.

CLEVELAND, O., February 16th, 1882.

REPORT OF THE
ENGINEER IN CHARGE
OF THE
PUMPING WORKS.

To the Board of Trustees of Water Works :

GENTLEMEN:—The unparalleled demand upon the Pumping Department of the Cleveland Water Works for the year just closed, renders it my duty to inform your Honorable Body that my former calculations in regard to the wants of this Department will fall far short of the actual demands as developed by the past dry season, remarkable growth and business prosperity of the city, and it is highly gratifying to those in immediate charge of the Works to know that you are actively engaged maturing plans for the extension of the Works on a scale commensurate with the prospective demands of the future.

After passing through the severe winter of 1880 and 1881 we felt a great relief in the prospect of having our new Worthington engine ready for service before the warm weather approached, but in this we were disappointed. However, very fortunately, our machinery proved equal to the demand, and at this time I am able to report that the Pumping Department has been able to meet all legitimate demands upon it during the year just closed, and nothing in the nature of an accident has occurred excepting the giving out of the old Cornish boilers

in the east boiler room which were reported condemned in my report for 1880. Since that date they have only been used occasionally while cleaning the west battery, and January 12th commenced leaking so badly that they were abandoned, and were removed from the building February 24th to make room for the new Worthington Pumps.

CORNISH ENGINES.

The old Cornish engines are in good condition and ready for service, but on account of the improvements going on around that building they have done much less work than formerly, especially the east engine. Their shallow pump pits render them almost useless, at such times as they are most needed. They are only available when the consumption is very light.

HENDERSON ENGINES.

These engines have been called into regular service for the first time since the Worthington engine No. 1 was started. Owing to the largely increased consumption of water and the improvement going forward on the north side. Extensive repairs of a general character will be necessary the coming spring, as we shall need every available pump to meet the demands upon us during the hot weather.

Only slight repairs have been necessary on these engines.

WORTHINGTON ENGINE, NO. 1.

By reference to schedule giving the record of work done by each engine it will be seen that these engines have been in almost constant use. No repairs have been necessary.

January 7th new main pump valves were put in. The valves removed have served four and one-half years, and it was thought best to replace them as a precautionary measure, with new valves. The old valves are comparatively good and are kept as a reserve.

No repairs will be necessary on these engines the coming year unless an accident should happen them.

WORTHINGTON ENGINE NO. 2.

These engines, contracted for in 1879, were started December 28, 1881. Much delay has been experienced in the erection of these engines the cause of which you are already familiar. I can only say of these engines that they are of the same capacity as the Worthington engines now in use at the Works. Some minor improvements have been introduced, however, suggested by me, which in point of convenience and durability will add very much to the value of the engines, (viz.) metallic packing in all stuffing boxes, metal gaskets in all steam joints, permanent fastening of suction valve seats in main pump, etc. I feel confident that these engines will meet all our expectations fully and sustain the enviable reputation No. 1 has earned.

BOILERS.

Nine boilers have been in use since my last report, six in the south building and three in the north.

The boiler capacity of the south building is not sufficient for the engines now in the building when running full capacity, rendering it impossible to keep them clean and otherwise cared for. I see no remedy for this, unless the Henderson engines be removed and another Worthington put in its place. By adopting this suggestion we should have ample boiler capacity with one boiler at our disposal. By reference to the schedule giving the respective duties of the engines it will be observed that there is a difference of about 33 per cent. in favor of the Worthington.

The boilers known as the New Cornish are located as follows: three in the west boiler house north side, and three have just been placed in the new boiler house. These boilers are in good order and have needed no repairs since they were rebuilt in 1876.

The four Marine or return flue boilers and two tubular boilers in the south building have been in constant use during the year and but little repairs have been necessary, they are in good

- order and will require but very little expense the coming year.

Three new boilers have been put in the East end of the new boiler house of the same general plan as those now in use in the south building, at this early date I am not prepared to say much about them, the first fire having been put in them December 15th. However, our experience with those in the south building has seemed to warrant their adoption.

RECOMMENDATIONS, ETC.

In view of the experiences of last year it would seem proper for me to suggest that immediate steps be taken to increase the capacity of the Water Works and Pumping facilities.

By reference to the tables giving the quantities of water pumped it will be seen that many times during the year we exceeded the capacity of the pumps in use, viz. the Henderson eight million gallons capacity, and the Worthington ten million gallons per twenty-four hours, and nothing to fall back upon but the old Cornish pumps, with a combined capacity of about seven and a half millions.

Since the No. 2 Worthing pumps have been put in it would seem that the circumstances were somewhat changed. It would appear to add about 33 per cent. to our capacity, but when we are brought face to face with the fact that the increased consumption for the year 1881 was 33 per cent. this delusion disappears at once.

I am aware that you are somewhat familiar with these significant facts, but I believe I should fail in doing my whole duty were I to close this report without calling your attention to the matter. With no storage it seems to me dangerous to depend upon this small reserve.

I would therefore recommend that you provide two ten million gallon pumps at your earliest convenience, one to take the place of the Henderson engines, and the other for the west wing of the north building. Also furnish three boilers of equal capacity as those just put in, and complete the other half of the present new boiler house, as contemplated in the drawings and plans now on file in the Water Works Office.

It has been our custom to do most all the repairs of machinery at the Works with our regular force, and no separate account has been kept of this work, for this cause the running expenses would seem to have been increased. This is not the fact, however, as our force remains about the same numerically as last year, and all the legitimate increase is due to a slight advance in wages made by the Board last June.

The expense for repairs outside of our regular force has been so small that I refrain from making any report of it.

Schedule showing gallons of water pumped and coal consumed in pumping. Percentage of coal consumed and water pumped by each engine, contract price of coal, coal consumed and cost of raising 1,000,000 gallons into reservoir:

ENGINES.	Gallons of water pumped by different engines	Pounds of coal consumed by different engines.	Per cent. of water pumped by the different engines.	Per cent. of coal consumed by the different engines.	Pounds of coal consumed pumping 1,000,000 gallons water into reservoir.	Contract price of coal per ton.	Cost of raising 1,000,000 gallons into reservoir.	Year.
No. 1 Worthington.	2,620,411,400	7,273,710	54.25	44.21	2,776	\$1 55	\$2 15	1881
No. 2 "	23,595,340	77,300	.50	.48	3,270	1 55	2 51	"
Hender-on	1,810,672,068	7,769,240	37.48	47.22	4,200	1 55	3 32	"
Cornish	875,642,225	1,332,100	7.77	8.00	3,540	1 55	2 74	"

IMPROVEMENTS, ETC.

The N. Y. P. & O. R. R. track has been extended into the Water Works yard north of the new boiler house with express reference to our convenience in handling coal. The coal for the new house is shoveled directly from the cars into the fire room, thereby saving much labor in handling fuel.

With our narrow gauge railroad track again in order for taking coal to the south boiler house, we shall be able to dispense with hauling by team as we have been obliged to do the past year.

The transformation of the east boiler room into an engine room has been accomplished with good effect, making it the pleasantest engine room around the Works, it is light and attractive, and when the No. 2 Worthington engine is lagged and painted the engine and surroundings will be in perfect harmony and a credit to the works.

Our work shops have not been supplied with tools, and, of course, are of very little value to us as yet, but we hope to have this done the coming summer. There is a growing necessity for this improvement, and with your co operation we shall soon expect to enjoy its advantages.

The following tables will show in a comprehensive form the work done by the different engines during the year 1881, and enable you to compare the work of this year with former years.

Respectfully submitted,

R. DOTY,
Engineer in Charge.

TABULAR STATEMENTS.

The following pages contain tabular statements showing the work of engines, distribution of water, extension and laying of pipes, location and number of stop gates and hydrants set, abstract of expenditures, &c.



CORNISH ENGINE RECORD FOR 1881.
WEST ENGINE.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	15	325	36	171,815	10,000	174,600	184,600	55,152,615	159.500	30,851,902
February	16	346	5	177,360	11,400	201,800	212,200	54,632,560	159.307	36,576,426
March	29	536	40	290,225	11,000	304,300	315,300	93,162,225	158.744	36,212,683
April	26	237	55	126,635	30,600	131,800	162,400	43,620,825	158.128	35,764,091
May	24	283	15	145,775	28,000	144,800	170,800	46,793,775	158.156	36,236,024
June	22	251	55	133,975	28,000	131,000	159,000	43,005,975	157.754	36,683,381
July	7	90	45	57,075	11,400	53,000	64,400	18,321,075	157.999	37,590,090
August	2	10	.....	4,700	13,000	5,000	18,000	1,506,700	158.874	11,135,986
September	8	82	.....	52,475	12,000	52,400	64,400	16,544,475	158.791	34,573,453
Totals and Averages..	149	2,222	10	1,170,225	153,400	1,193,700	1,362,100	375,642,295	158.583	36,963,782

CORNISH ENGINE RECORD FOR 1881—Continued.
EAST ENGINE.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	7	97	35	52,300	15,000	57,800	72,800	16,788,300	159.666	30,792,272
Totals and Averages ..	7	97	35	52,300	15,000	57,800	72,800	16,788,300	159.666	30,792,272

CORNISH ENGINE RECORD FOR 1881—*Concluded.*
BOTH ENGINES.

ENGINES.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
West Engine	149	2,222	10	1,170,225	153,400	1,198,700	1,352,100	375,642,225	158.583	33,953,782
East Engine.....	7	97	35	53,300	15,000	57,800	72,800	16,788,300	159.606	30,732,272
Totals and Averages..	156	2,319	45	1,222,525	168,400	1,256,500	1,424,900	392,430,525	158.691	33,642,131

HENDERSON DUPLEX ENGINE, RECORD FOR 1881.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	18	405	30	307,232	3,000	757,500	760,500	166,530,008	159.653	23,366,329
February.....	16	345	.....	266,153	4,400	685,100	689,500	147,601,962	159.980	23,753,821
May.....	29	679	10	517,826	4,000	1,071,200	1,075,800	278,851,838	158.149	34,434,018
June.....	13	278	40	201,752	1,000	369,000	370,000	108,348,645	157.878	35,496,226
July.....	26	538	15	329,379	.....	611,300	611,300	176,217,765	158.400	36,365,670
August.....	31	744	.....	457,541	1,440	959,100	960,540	244,784,435	159.048	34,048,182
September.....	24	588	45	289,378	3,000	663,400	666,400	154,814,555	158.558	29,432,021
October.....	31	744	.....	371,036	1,200	923,700	924,900	198,504,260	158.559	27,224,250
November.....	30	708	15	323,295	1,200	882,800	884,000	172,962,825	163.000	23,780,954
December ..	23	660	.....	302,908	1,200	825,100	826,300	162,155,780	158.087	26,063,787
Totals and Averages..	246	5,686	36	3,363,495	21,040	7,748,200	7,769,240	1,810,772,068	159.096	30,963,225

WORTHINGTON DUPLEX ENGINE No. 1, RECORD FOR 1881.

MONTHS.	Days.	PUMPING.			COAL CONSUMED			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January....	26	603	30	307,076	1,200	770,300	771,500	227,557,120	159.567	39,374,259
February.....	28	647	55	397,850	.....	784,200	784,200	246,667,000	159.595	41,991,493
March.....	31	744	.....	499,932	.....	886,600	886,600	309,957,840	158.723	46,416,517
April.....	30	720	.....	481,937	4,200	812,400	816,600	298,800,940	158.068	48,315,777
May.....	8	162	50	97,427	5,000	194,200	199,200	60,404,740	158.104	40,103,494
June.....	25	534	38	336,001	.....	579,200	579,200	206,330,620	157.592	47,412,782
July.....	31	724	30	424,773	13,400	729,200	742,600	263,359,320	158.349	46,974,973
August.....	31	738	45	394,442	900	649,400	650,360	244,551,040	159.113	49,744,782
September.....	30	717	30	375,937	2,000	670,400	672,400	233,093,340	158.900	43,291,305
October.....	31	735	30	271,515	800	591,950	592,750	198,339,300	158.566	37,671,961
November ..	30	714	45	293,847	800	588,600	589,400	182,195,140	163.000	42,145,188
December.....	31	741	30	285,713	800	588,100	588,900	177,142,060	153.040	39,795,842
Totals and Averages...	332	7,785	18	4,226,470	29,160	7,844,550	7,873,710	2,620,411,400	158.999	43,599,819

WORTHINGTON DUPLEX ENGINE No. 2, RECORD FOR 1881.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
December	4	80	.....	38,057	5,000	72,300	77,300	23,595.340	158 750	.....
Totals and Averages..	4	80	...	38,057	5,000	72,300	77,300	23,595.340	158 750	.....

SCHEDULE
SHOWING THE DISTRIBUTION OF WATER FOR EACH MONTH AND DAY IN THE YEAR 1881.

MONTHS.	Gall's Water Pumped by Cornish Engines.	Gall's Water Pumped by Henderson Engines.	No. 1. Gall's Water Pumped by Worthington Engines.	No. 2. Gall's Water Pumped by Worthington Engines.	GALLONS DISTRIBUTED.			Each inhabitant consumer per day.
					Per Month.	Average per Day.	Each inhabitant consumer per day.	
January	71,940,915	109,530,068	227,387,120	.....	466,083,043	15,034,130	86.90	183.78
February	59,932,561	147,001,992	246,667,000	.....	451,201,552	16,114,341	93.14	196.90
March	93,162,225	.....	309,457,810	.....	403,120,065	13,003,873	75.16	158.96
April	43,920,826	.....	298,800,940	.....	342,721,765	11,424,050	66.03	139.65
May	46,793,775	278,831,833	60,404,740	.....	386,050,348	12,453,217	71.94	152.23
June	43,005,075	108,348,615	208,320,620	.....	356,075,240	11,989,175	69.30	146.53
July	18,321,075	176,217,765	293,356,290	.....	457,898,100	14,770,906	85.38	180.56
August	1,308,700	244,784,435	244,554,040	.....	490,847,175	15,833,780	91.52	193.56
September	16,844,475	151,814,555	233,063,340	.....	401,753,370	13,491,746	77.98	161.93
October .....	.....	198,501,290	168,336,300	.....	305,843,580	11,833,663	68.40	144.66
November .....	.....	172,962,825	182,183,140	.....	355,147,965	11,838,295	68.42	144.71
December .....	.....	162,158,780	177,142,060	23,595,340	368,863,180	11,706,231	67.67	143.10
Totals and Averages	392,430,525	1,810,772,098	2,630,411,400	23,595,340	4,947,200,303	13,280,025	76.76	162.34

SCHEDULE

SHOWING THE TOTAL AND AVERAGE QUANTITIES OF WATER PUMPED
EACH YEAR SINCE THE BEGINNING OF THE WORKS.

YEARS.	GALLONS DISTRIBUTED.				Per cent of Increase.
	Per Year.	Per Day.	Each inhabitant per day.	Each consumer per day.	
1857	127,262,265	348,664	7.75	110.68	
1858	142,155,434	398,467	8.37	93.44	11.70
1859	198,284,000	513,107	11.31	91.27	30.45
1860	260,220,354	710,984	14.11	101.57	31.87
1861	322,175,022	881,500	16.32	114.50	23.61
1862	369,673,002	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.68	123.89	12.14
1865	517,961,005	1,417,151	21.80	122.70	8.64
1866	587,372,220	1,609,239	22.35	124.26	13.55
1867	696,369,375	1,907,861	23.85	115.98	18.55
1868	768,786,975	2,106,265	24.77	116.08	10.40
1869	898,936,425	2,462,839	27.30	120.20	16.92
1870	1,126,228,500	3,085,558	30.86	112.20	25.28
1871	1,367,021,100	3,746,907	35.68	124.90	21.43
1872	1,686,370,895	4,607,571	40.07	131.64	22.67
1873	1,869,768,835	5,096,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.45
1875	2,216,775,816	6,073,258	44.00	136.65	8.12
1876	2,399,225,403	6,573,220	49.22	131.28	8.23
1877	2,820,356,074	7,726,920	55.91	142.24	17.55
1878	2,862,946,823	7,925,882	51.13	135.05	2.57
1879	3,455,271,981	9,466,498	62.09	145.61	19.43
1880	3,725,683,621	10,179,461	65.25	145.93	7.82
1881	4,847,209,363	13,280,025	76.76	162.34	30.1

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
	30	Engine house grounds.....	From a point 65 ft. W. of E. L. of W. W. Property on N. L. of Division st., northwesterly to Old Works to connect with Worthington engine.....			
North.....	12	Franklin ave.....	W. L. of Waverly st., west.....	72	72	
West.....	10	Lincoln ave.....	From 5 ft south of Euclid ave., south.....	8	8	
East.....	8	Bank st.....	T in St. Clair to cross in Lake.....	5	5	
North.....	8	Broadway.....	Hyd. at Petrie to 106 ft. E. of Hamlet.....	700		
East.....	8	Custead ave.....	28 ft north of Euclid, north.....	2723		
West.....	8	Doan st.....	S. L. Euclid to 13 ft. S. of N. L. Cedar.....	8		
South.....	8	East Prospect st.....	E. L. Willson ave. to 248 ft. E. of Schioley court.....	1550		
East.....	8	Ellsworth.....	T in Woodland to cross in Lundy.....	1205		
South.....	8	Garden.....	T in Lodge to T in First ave.....	1142		
East.....	8	McBride.....	Cross in Willson to T in Broadway.....	382		
West.....	8	Merwin.....	163 ft. S. of Jamest. south.....	997		
South.....	8	Orange.....	Cross in Mayflower to 187 ft. E. of Humboldt.....	81		Relaid 8 & 8.
East.....	8	Oakland.....	N. L. Detroit to 132 ft. N. Crescent.....	878		
				1988		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
North....	8	Payne ave.....	Cross in Belden to T in Willard.....	441		
East.....	8	Seneca.....	N. L. Superior, north.....	241		
North....	8	Woodland ave.	T in Madison to T in Ellsworth.....	2005		
East.....	8	Willson ave.....	S. L. Bower to Cross in McBride.....	2089	17,365	
East.....	6	Arlington.....	T in Scovill north to connect pipe.....	516		
South.....	6	Auburn.....	Cross in Scranton to E. L. Merchant.....	1715		
East.....	6	Belden.....	Cross in Superior to S. L. Payne ave.....	1628		
West.....	6	Birch.....	N. L. Lorain st., north.....	6		
East.....	6	Blair.....	T in Cedar to Hyd. at Garden.....	800		
East.....	6	Brook.....	T in Lorain to 167 ft. S. of Bradford Ext.	735		
South.....	6	Buckeye.....	T in Case avenue to T in Wallingford court..	596		
North.....	6	Carroll.....	E. L. Fulton to cross in York.....	1460		
East.....	6	Carter.....	Hyd. at Hotchkiss & Gaylords, north to connect pipe.	596		
East.....	6	Case ave.....	N. L. St. Clair to cross in Hamilton.....	390		
South.....	6	Circle.....	Pipe in York to T in Fulton.....	108		
East. ...	6	Cheshire.....	T in Garden to S. L. Prospect.....	967		Re-laid C. 4 & 6.

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
East.....	6	Chester.....	S. L. Woodland to N. L. Beaver.....	743		
East.....	6	Clifton.....	Cross in Superior to 257 ft. S. of St. Clair.....	745		
South.....	6	Cypress.....	T in Willson to Hyd. at Dike.....	1646		
East.....	6	Dike.....	T in Quincy, south.....	38		
East.....	6	Douglas.....	Pipe in Payne ave., south.....	6		
East.....	6	Duane.....	T in Woodbine, north.....	30		
East.....	6	Everett.....	Pipe in Payne ave., south.....	6		
South.....	6	Fifth ave.....	T in Willson to E. L. Willson.....	56		
East.....	6	First ave.....	Cross in Quincy to T in Garden.....	1008		
East.....	6	Florence.....	Cross in Cypress to 185 ft. N. of Scovill.....	904		
South.....	6	Fourth.....	T in Willson to E. L. Willson.....	56		
West.....	6	Granger.....	T in Garden to S. L. Prospect.....	1088		Relaid C. 4 & 6.
East.....	6	Green.....	S. L. Lorain to T in Monroe.....	1276		
East.....	6	Green.....	T in Lorain to S. L. Lorain.....	40		Relaid I. 4 & 6.
East.....	6	Greenwood.....	Cross in Cedar to N. L. Garden.....	634		
East.....	6	Greenwood.....	S. L. Garden to 8 ft. N. of Marlon.....	377		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
North.....	6	Harlem.....	T in Wilson to 13 ft W. of Wilson.....	56		
South.....	6	Hamilton.. ..	T in Wason to cross in Case.....	777		
East.....	6	Hamlet.....	T. in Broadway, north.....	1267		
West.....	6	Hicks.....	T in Bridge to T in Moore.....	397		
West.....	6	Humboldt.....	T in Orange to 10 ft. N. of Croton.....	556		
East.....	6	Hunter.....	T in Broadway, north.....	35		
East.....	6	Jersey.....	T in Monroe to S. L. Lorain.....	1165		
East.....	6	Jersey.....	S. L. Lorain to 8 ft. north of Lorain.....	75		Relaid I. 4 & 5.
South.....	6	John.....	T in Harbor to T in Woodbine.....	967		
East.....	6	Kentucky.....	T in Terrett to S. L. Franklin.....	144		
East.....	6	Laurel.....	N. L. Woodland to S. L. Scovill... ..	1025		
East... ..	6	Lodge ave.....	Cross in Quincey to T in Garden.....	1022		
West.....	6	Lorain.....	W. L. Smith to 13 ft. N. of Bradford.....	504		
East.....	6	Lyman.....	S. L. St. Clair to cross in Superior.....	1073		
East.....	6	Lyman.....	T in St. Clair to S. L. St. Clair.....	42		Relaid I. 4 & 5.
East.....	6	Lyman.....	271 N. of Mason north to connect pipe.....	267		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
South....	6	Mahoning	E. L. Literary east to Connotton R. R.	777		Re'aid I. 4 & 6.
South.. ..	6	Mahoning	T in Literary to E. L. Literary	20		
East.....	6	Maple	N. L. Woodland to cross in Scovill	1081		
West.....	6	Merchant ave.....	Cross in Starkweather to cross in Auburn	496		
North.....	6	Monroe.....	T in Green to T in Penn.....	337		
West	6	Monumental Park ..	102 feet south of Superior, south.....	33		
West	6	Morse ave	S. L. Euclid to 17 5 ft. S. of N. L. East Prospect.....	793		
East	6	Oliver	T in Oregon, North.....	12		
East.....	6	Osborn.....	S. L. Garden, South.....	15		
East.....	6	Pier	S. L. Woodland to N. L. Beaver	743		
North.. ..	6	Scovill ave.....	W. L. Slater to cross in Florence	367		
East.....	6	Schleley court.	T in East Prospect, north	533		
East	6	Second ave.....	Pipe in Cedar to S. L. Cedar	24		
South.....	6	Seymour ave.....	W. L. Columbus to T in Hitchcock	1207		
East.....	6	Sheriff	T in Prospect to 7 ft. N. of Prospect	37		Re'aid I. 4 & 6.
West	6	Spangler ave	N. L. Euclid, north	625		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
West.....	6	Smith.....	T. in Lorain, south.....	442		
East.....	6	Sterling ave.....	Cross in St. Clair to cross in Hamilton.....	415		
South.....	6	Stone.....	Cross in Oakland, east.....	457		
South.....	6	Terrett.....	T in Harbor to T in Kentucky.....	815		
South.....	6	Third ave.....	T in Willson to E. L. Willson.....	56		
South.....	6	Wade ave.....	W. L. Pearl to cross in Hitchcock.....	1253		
East.....	6	Wallingford court.....	T in Buckeye, north to connect pipe.....	406		
South.....	6	Warren.....	T in Solon to 36 feet east of W. L. Martin.....	1233		
South.....	6	White ave.....	Hyd. at Baker street to 14 feet east of W. L. Norwood.....	652		
South.....	6	Windsor ave.....	E. L. Case to pipe in Willson.....	1750		
East.....	6	York.....	N. L. Ventry to S. L. of Circle.....	290		
	6	Hydrant connections.....	.....	32	42,389	
South.....	4	Beck.....	T in Case ave., east.....	381		
East.....	4	Greenwood.....	Cross in Cedar to T in Sibley.....	343		
West.....	4	Hicks.....	T in Moore, south.....	114		
West.....	4	Lee's court.....	T in Woodland ave., north.....	400		

Relaid C. 4 & 8.

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1881—Continued.

Side.	Size.	Street.	Between what points.	Feet Laid.	Total.	Remarks.
South.	4	McKinstry	T in Literary, west.	503		
East	4	McLean	N. L. Lorrain, north.	8		
South.	4	Vestry	Pearl to York	531		Relaid Cement
		Hydrants and cistern con.		1360	3,640	Total 4.
North	3	Baldwin court	Pipe in alley, east.	71		
West	3	Alley E. of Ontario and N. of St. Clair	T in St. Clair, north, to elbow in Baldwin court.	181	252	Total 3.
					63,761	Total Pipe.

SCHEDULE OF PIPE TAKEN UP AND RELAID IN 1881.

Diameter of Pipe Taken up.	Diameter of Pipe Relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
8	8	Merwin	163 ft. S. of James st. south	81	.....	Iron.
4	6	Cheshire	T in Garden to S. L. Prospect	987	.....	Cement.
4	6	Granger	T in Garden to S. L. Prospect	1,058	.....	"
4	6	Green	T in Lorain to S. L. Lorain	40	.....	Iron.
4	6	Jersey	S. L. Lorain to 8 ft. N. of Lorain	75	.....	"
4	6	Lyman	T in St. Clair to S. L. St. Clair	42	.....	"
4	6	Mahoning	T in Literary to E. L. Literary	20	.....	"
4	6	Sheriff	T in Prospect to 7 ft. N. of Prospect	37	.....	"
4	6	Sterling	Cross in St. Clair to Cross in Hamilton	415	.....	Cement.
4	4	Vestry	Pearl to York	531	.....	"
					3,293	

TOTAL FEET OF PIPE LAID TO DECEMBER 31, 1881.

Diameter of Pipe in Inches...	36	30	24	20	16	12	10	8	6	4	3
Laid previous to 1881.....	2,000	19,965	9,980	10,974	12,555	8,490	68,078	98,890	283,231	183,231	14,754
Laid in 1881.....		72				8	5	17,395	42,389	8,640	252
Total	2,000	20,037	9,980	10,974	12,555	8,498	68,083	117,285	325,620	191,871	15,006
Taken up in 1881.....								81		3,185	
Total in use	2,000	20,037	9,980	10,974	12,555	8,498	68,083	117,204	325,620	188,686	15,006
	55,546			688,097							

RECAPITULATION.

55,546 ft. of Supply Main.....	equal to 10 miles—2,746 feet.
688,097 ft. of Distributing Main.....	" " 126 " 2,817 "
723,643 ft. of Pipe.....	" " 137 " 283 "

SCHEDULE

SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET
IN 1891.

NO.	SIZE.	STREETS.	SIDE.	LINE OF STREET.	REMARKS.
1	30 in.	Engine house grounds		Check valve.....	
1	8 "	Bank st	East.	N. L. St. Clair st	
1	8 "	" "	"	S. L. Lake st.....	
1	8 "	Broadway	North.	E. L. Hollister st	
1	8 "	"	"	E. L. McBride st.	
1	8 "	"	"	E. L. Barkwill st	
1	8 "	"	"	E. L. Hamlet st	
1	8 "	Doan st	West	736 feet S. of Euclid ave.	
1	8 "	" "	"	N. L. Cedar ave.....	
1	8 "	East Prospect st	South.	E. L. Schieleley Court	
1	8 "	Ellsworth st	East.	S. L. Woodland ave.....	
1	8 "	" "	"	N. L. Lundy st.....	
1	8 "	Garden st.....	South.	W. L. Lodge ave.....	
1	8 "	McBride st.....	"	W. L. Willson ave.	
1	8 "	" "	"	N. L. Broadway	
1	8 "	Oakland st	East.	N. L. Herrmann st	
1	8 "	" "	"	N. L. Cass st	
1	8 "	Orange st.....	South.	E. L. Mayflower st.....	
1	8 "	" "	"	E. L. Humboldt st.	
1	8 "	Payne ave	North	E. L. Belden st.....	
1	8 "	Woodland ave.....	South.	E. L. Madison ave., fr S.	
1	8 "	" "	North.	W. L. Lincoln ave.....	
1	8 "	" "	"	W. L. Lisbon st.....	
1	8 "	Willson ave.....	East.	92 ft. S. of Maurice st....	
1	8 "	" "	"	941 ft. N. of McBride st....	

SCHEDULE

SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN
1881—Continued.

NO.	SIZE.	STREET.	SIDE.	LINE OF STREET.	REMARKS.
1	8 in.	Willson ave	East.	N. L. McBride	
1	8 "	Seneca street	"	S. L. Frankfort	
26	8 in.	Total 8 inch valves			
1	6 "	Arlington st	East.	N. L. Scovill ave	
1	6 "	Auburn st	South.	E. L. Scranton ave	
1	6 "	"	"	W. L. Jennings ave	
1	6 "	"	"	E. L. Jennings ave	
1	6 "	"	"	W. L. Merchant ave	
1	6 "	Belden	East.	S. L. Superior	
1	6 "	"	"	N. L. Payne ave	
1	6 "	"	"	S. L. "	
1	6 "	Blair	"	S. L. Cedar "	
1	6 "	Brock	North.	E. L. Lorain	
1	6 "	Buckeye	South.	E. L. Case ave	
1	6 "	Carroll	North.	E. L. Penn	
1	6 "	"	"	E. L. Jersey	
1	6 "	"	"	W. L. York	
1	6 "	Carter	East.	N. L. Collins	
1	6 "	Cheshire	"	N. L. Garden	C. from 4 to 6.
1	6 "	"	"	S. L. Prospect	C. from 4 to 6.
1	6 "	Chester	"	S. L. Woodland ave	
1	6 "	Clifton	"	N. L. Superior	
1	6 "	Cypress	South.	E. L. Willson ave	
1	6 "	"	"	W. L. First ave	
1	6 "	"	"	W. L. Florence	
1	6 "	"	"	E. L. "	
1	6 "	Dike	East.	S. L. Quincy	
1	6 "	Duane	"	N. L. Woodbine	

SCHEDULE

SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN
1881—Continued.

NO.	SIZE.	STREET	SIDE.	LINE OF STREET.	REMARKS.
1	6 in.	Fifth ave.....	South.	E. L. Willson ave.....	
1	6 "	First "	East.	N. L. Quincy.....	
1	6 "	" "	"	S. L. Garden.....	
1	6 "	Florence.....	"	N. L. Scovill ave.....	
1	6 "	"	"	S. L. "	
1	6 "	Fourth ave.....	South.	E. L. Willson "	
1	6 "	Granger.....	West.	N. L. Garden.....	C. from 4 to 6.
1	6 "	"	"	S. L. Prospect.....	C. from 4 to 6.
1	6 "	Green	East.	N. L. Monroe	
1	6 "	"	"	S. L. Chatham	
1	6 "	"	"	S. L. Lorain.....	C. from 4 to 6.
1	6 "	Greenwood.....	"	S. L. Garden.....	
1	6 "	"	"	S. L. Cedar ave.....	
1	6 "	Harlem.....	North.	W. L. Willson ave.....	
1	6 "	Hamilton.....	South.	W. L. Case "	
1	6 "	"	"	E. L. Wason	
1	6 "	Hamlet.....	East.	N. L. Broadway.....	
1	6 "	Hicks.....	West.	S. L. Bridge.....	
1	6 "	Humboldt.	"	S. L. Orange.....	
1	6 "	Hunter.....	East.	N. L. Broadway.....	
1	6 "	Jersey	"	S. L. Lorain	C. from 4 to 6.
1	6 "	"	"	N. L. "	C. from 4 to 6.
1	6 "	"	"	N. L. Chatham.....	
1	6 "	"	"	S. L. "	
1	6 "	"	"	N. L. Monroe.....	
1	6 "	John.....	South.	E. L. Harbor.....	
1	6 "	"	"	S. L. Woodbine.....	
1	6 "	Kentucky.....	East.	S. L. Franklin	
1	6 "	Laurel.....	"	S. L. Scovill ave.....	
1	6 "	"	"	N. L. Woodland ave.....	C. from 4 to 6.

SCHEDULE

SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN
1881—Continued.

NO	SIZE.	STREET.	SIDE.	LINE OF STREET.	REMARKS.
1	6 in.	Lodge ave	East.	N. L. Quincy	
1	6 "	" "	"	S. L. Garden	
1	6 "	Lorain	"	S. L. Brock	
1	6 "	Lyman	"	S. L. St. Clair	C. from 4 to 6.
1	6 "	"	"	N. L. Superior	
1	6 "	Mahoning	South.	E. L. Literary	C. from 4 to 6
1	6 "	"	"	W. L. Dry Dock	
1	6 "	Maple	East.	S. L. Scovill ave.	
1	6 "	"	"	N. L. Woodland ave.	C. from 4 to 6.
1	6 "	Merchant ave.	West.	N. L. Auburn	
1	6 "	Morse ave.	"	N. L. East Prospect	
1	6 "	Osborne	East.	S. L. Garden	
1	6 "	Pier	"	S. L. Woodland ave.	
1	6 "	Schleley Court	"	N. L. East Prospect	
1	6 "	Second ave	"	S. L. Cedar ave.	
1	6 "	Seymour ave.	South.	W. L. Pearl	
1	6 "	" "	"	E. L. Mill	
1	6 "	" "	"	E. L. Hitchcock	
1	6 "	Sheriff	East.	N. L. Prospect	C. from 4 to 6.
1	6 "	Smith	West.	S. L. Lorain	
1	6 "	Sterling ave.	East.	N. L. St. Clair	C. from 4 to 6.
1	6 "	Stone	South.	E. L. Oakland	
1	6 "	Terrett	"	E. L. Harbor	
1	6 "	"	"	W. L. Kentucky	
1	6 "	Third ave	"	E. L. Willson ave.	
1	6 "	Wade ave	"	W. L. Pearl	
1	6 "	" "	"	E. L. Mill	
1	6 "	" "	"	E. L. Hitchcock	
1	6 "	Wallingford Court ..	East.	N. L. Buckeye	
1	6 "	Warren	South.	S. L. Warren	

SCHEDULE

SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN
1881—Concluded.

NO.	SIZE.	STREET.	SIDE.	LINE OF STREET.	REMARKS.
1	6 in	Warren	South.	W. L. Dille.....	
1	6 "	White ave.....	"	W. L. Norwood.....	
1	6 "	Windsor ave.....	"	800 feet E. of Case ave...	
1	6 "	" "	"	W. L. Willson ave.....	
1	6 "	Woodland ave	"	W. L. Lee's Court.....	
1	6 "	York	East.	S. L. Circle.....	
5	6 "	For hydrants. . . .			
96	6 in.	Total 6 in. set in 1881.			
1	4 "	Beck	South.	E. L. Case ave.....	
1	4 "	Greenwood.	East.	N. L. Cedar ave	/
1	4 "	"	"	S. L. Sibley.....	
1	4 "	Lee's Court.....	West.	N. L. Woodland ave ..	
1	4 "	McKinstry Court.....	"	N. L. Literary.....	
1	4 "	McLean.....	East.	N. L. Lorain.....	
136	4 1/2 "	For hydrant and cistern connections...			
142	4 in.	Total 4 in. valves set in 1881.			
1	3 "	Alley east of Ontario & north of St. Clair.	West.	N. L. St. Clair st	

RECAPITULATION OF STOP GATES FOR 1881.

Water way—in inches.	36	30	24	20	18	12	10	8	6	4	3	Total
Set previous to 1881	1	22	7	17	20	18	90	175	604	995	258	2,205
Set in 1881	1	1	....	....	....	....	....	26	98	142	1	296
Total	1	23	7	17	20	18	90	201	700	1137	257	2,471
Taken out in 1881 .....	....	....	....	....	....	....	....	1	....	13	8	22
Total .....	....	23	7	17	20	18	90	200	700	1124	249	2,449

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1881.

NO.	SIZE.	STREETS.	FEET	LOCATION.	SIDE.
1	4 in.	Auburn	459	E. of Scranton ave.....	South.
1	4 "	"	248	E. of Jennings ave	"
1	4 "	"	200	W. of Merchant ave.....	"
1	4 "	"		On E. L. of Merchant ave.....	"
1	6 "	Bank	30	S. of Johnson st	East.
1	4 "	Beck	381	E. of Case ave	North.
1	4 "	Belden ave.....	272	S. of Superior st.....	East.
1	4 "	"	672	S. of Superior st.....	"
1	4 "	"	407	N. of Payne ave.....	"
1	4 "	"	18	N. of Payne ave	"
1	4 "	Blair	379	S. of Cedar ave	"
1	4 "	Broadway	95	W. of Holister st.....	North.
1	4 "	"	8	E. of Fowler ave.....	"
1	4 "	"	19	W. of McBride st.....	"
1	4 "	"	388	E. of McBride st	"
1	4 "	"	73	E. of Barkwill ave.....	"
1	4 "	"	17	E. of Hamlet st.....	"
1	4 "	"	24	S. of Irving st	East.
1	4 "	"	357	S. of Irving st.....	"
1	4 "	Brock	167	S. of Bradford Extension	"
1	4 "	Buckeye	178	E. of Case ave.....	South.
1	4 "	"	6	W. of Wallingford court.....	"
1	4 "	Carroll.....		At Penn st.....	North.
1	4 "	"	146	W. of Jersey st.....	"
1	4 "	"	225	E. of Jersey st.....	"

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1881—CONTINUED.

No.	SIZE.	STREETS.	FEET	LOCATION.	SIDE.
1	6 in.	Carter	7	N. of Collins st.....	East.
1	4 "	Case ave		At Hamilton st.	"
C 1	3-4 "	Cheshire		At Garden st	"
1	4 "	"	311	N. of Garden st.....	"
1	4 "	Chester	278	S. of Woodland ave.....	"
1	4 "	"		At N. L. of Beaver st	"
1	4 "	Clifton	13	N. of Superior st.....	"
1	4 "	"	484	N. of Superior st.....	"
1	4 "	Cypress	123	W. of First ave.....	South.
1	4 "	"	10	W. of Slater st.....	"
1	4 "	"		At Dike st.....	"
1	4 "	Doan	321	S. of Euclid ave.....	West
1	4 "	"	306	N. of Wilbur st.	"
1	4 "	"		At Cedar ave.....	"
1	4 "	East Prospect	340	E. of Willson ave.....	South.
1	4 "	"	152	W. of Schiele court.....	"
1	4 "	"	248	E. of Schiele court.....	"
1	4 "	Ellsworth		At Woodland ave.....	East.
1	4 "	"	504	S. of Woodland ave.	"
1	6 "	"		At Lundy st.....	"
1	3-4 "	Euclid ave.....	61	E. of Muirson st.....	North.
C 1	3-4 "	"	70	E. of Dodge st.....	"
C 1	3-4 "	"	375	E. of Huntington st.	South.
C 1	3-4 "	"	114	W. of Perry st.....	North.
1	4 "	Fifth ave	7	W. of Second ave.....	South.
1	4 "	"	400	E. of Willson ave.....	"
1	4 "	First ave	215	N. of Quincy st.....	East.
1	4 "	"	398	S. of Garden	"
1	4 "	"	9	S. of Garden	"
1	4 "	Florence	167	S. of Scovill ave.....	"
1	4 "	"		At Cypress st	"

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1881—CONTINUED.

NO.	SIZE.	STREETS.	FEET	LOCATION.	SIDE.
1	4 "	Fourth ave.	504	W. of Second ave.	South.
1	4 "	Granger	280	N. of Garden st.	West.
C 1	3-4 "	"	368	S. of Prospect st.	"
1	4 "	Green	342	S. of Lorain st.	East.
1	4 "	"	73	S. of Chatham st.	"
1	4 "	"	6	N. of Monroe st.	"
1	4 "	Greenwood	9	S. of Pine st.	"
1	4 "	Hamilton	331	W. of Case ave.	South.
1	4 "	Hamlet	423	N. of Broadway.	East.
1	4 "	"	849	N. of Broadway.	"
1	4 "	"	1233	N. of Broadway.	"
DV 1	4 "	Hicks	5	N. of Moore st.	"
1	4 "	Humboldt	125	N. of Orange st.	West.
1	4 "	Jersey	236	S. of Lorain st.	East.
1	4 "	"	242	S. of Chatham st.	"
1	4 "	John	213	E. of Randall st.	South.
1	4 "	Laurel	264	S. of Scovill ave.	East.
1	4 "	"	345	N. of Woodland ave.	"
1	4 "	Lee's court	343	N. of Woodland ave.	West.
C 1	3-4 "	Literary. ....	.....	First Hyd. S. of N.Y.P. & O.R.R.	East.
1	4 "	Lodge ave.	243	N. of Quincy st.	"
1	4 "	"	358	S. of Garden st.	"
1	4 "	"	3	S. of Garden st.	"
1	4 "	Lorain .....	.....	At Smith st.	West.
1	4 "	"	13	N. of Bradford st.	"
1	4 "	Lyman	208	S. of St. Clair st.	East.
1	4 "	"	348	N. of Superior st.	"
1	4 "	McBride .....	.....	At Hector st.	"
1	4 "	McKinstry	470	N. of Literary st.	West.
1	4 "	"	153	N. of Literary st.	"
1	4 "	Mahoning	13	W. of Dry Dock st.	South.

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1881—CONTINUED.

NO.	SIZE	STREETS.	FEET	LOCATION.	SIDE.
1	4 in.	Maple	300	S. of Scovill ave.....	East
1	4 "	"	209	N. of Woodland ave.....	"
1	4 "	Morse ave	345	S. of Euclid ave.....	West.
1	4 "	"		At East Prospect st.	"
1	4 "	Oakland.	200	N. of Detroit st.....	East.
1	4 "	"	8	S. of Herrmann st.....	"
1	4 "	"	73	N. of Cass st.	"
1	4 "	"	132	N. of Crescent st	West.
1	4 "	Orange		At Grove st.....	South.
1	4 "	"	187	E. of Humboldt st.....	"
1	4 "	Pier	313	S. of Woodland ave.....	East.
1	4 "	"		On N. L. of Beaver st.....	"
C 1	3-4 "	Prospect	258	W. of Erie st.....	North.
C 1	3-4 "	"	263	E. of Sheriff st	South.
C 1	3-6 "	Sheriff		At Prospect st.....	West.
1	4 "	Schieley court.	97	N. of East Prospect st.....	East.
1	4 "	"	486	N. of East Prospect st	West.
1	6 "	South Water....	123	S. of James st	East.
1	4 "	Seymour ave	27	E. of Mill st	South.
1	4 "	"	280	W. of Mill st.....	"
1	4 "	Spangler ave.....	202	N. of Euclid ave.....	West.
1	4 "	"	623	N. of Euclid ave.....	"
1	4 "	Smith	397	S. of Lorain st.....	"
C 1	3-4 "	Sterling ave.....		At St. Clair st.....	East.
1	4 "	Stone	419	E. of Oakland st.....	South.
1	4 "	Terrett.		At Kentucky st	"
1	4 "	"	319	E. of Harbor st.....	"
1	4 "	Vestry	91	W. of Pearl st.....	"
1	4 "	Wade ave	50	W. of Pearl st.....	"
1	4 "	"		At Mill st.....	"
1	4 "	"	288	E. of Hitchcock st	"

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1881—CONCLUDED.

NO.	SIZE.	STREETS.	FEET	LOCATION.	SIDE.
1	4 in.	Warren	389	W. of Dille st.....	South.
1	4 "	"	8	W. of Dille st.....	"
1	4 "	"		At Martin st	"
1	4 "	White ave		At Addison st.....	"
1	4 "	"		At Norwood st.....	"
1	4 "	Willson ave.....	16	N. of Francis st.....	East.
1	4 "	"	90	S. of Maurice st.....	"
1	4 "	"	504	S of Maurice st.....	"
1	4 "	"	943	N of McBride st.....	"
1	4 "	"	509	N. of McBride st	"
1	4 "	"	36	N. of McBride st.....	"
1	4 "	Windsor ave	450	E. of Case ave.....	South.
1	4 "	"	897	E. of Case ave.....	"
1	4 "	"	298	W. of Willson ave....	"
1	4 "	Woodland ave.....	198	W. of Edwards ave.....	North.
1	4 "	"	149	E. of Edwards ave.....	"
1	4 "	"	83	W. of Southern ave.....	"
1	4 "	"		At Congress st.....	"
1	4 "	York	10	S. of Circle	East.
137	Total.				

SCHEDULE

SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED IN 1881.

No.	Taken up.	SET.	STREETS.	FEET	LOCATION.	SIDE.
1	3 in.	4 in.	Cheshire		At Garden st	East.
1	3 "	4 "	Euclid ave	61	E. of Mulrson st	North.
1	3 "	4 "	"	70	E. of Dodge st	"
1	3 "	4 "	"	375	E. of Huntington st	South.
1	3 "	4 "	"	114	W. of Perry st	North.
1	3 "	4 "	Granger	368	S. of Prospect st	West.
1	3 "	4 "	Literary		1st Hyd. S. of N Y. P. & O. R. R.	East.
1	3 "	4 "	Prospect	253	W. of Erie st	North.
1	3 "	4 "	"	263	E. of Sheriff st	South.
1	3 "	6 "	Sheriff		At Prospect st	West.
1	3 "	4 "	Sterling ave		At St. Clair st	East.
11			Total Hydrants changed.			

HYDRANTS MOVED IN 1881.

No.	SIZE.	STREETS.	LOCATION.	SIDE.
1	4 in.	Cheshire	From 410 feet S. of Prospect st. to 297 feet S. of Prospect st	East.
1	4 "	Greenwood	From about 20 feet N. of Garden st. to 49 feet S. of Garden st	"
1	4 "	Mason	Moved 12 feet W. from 251 feet E. of Lyman street	South.

RECAPITULATION OF HYDRANTS FOR 1881.

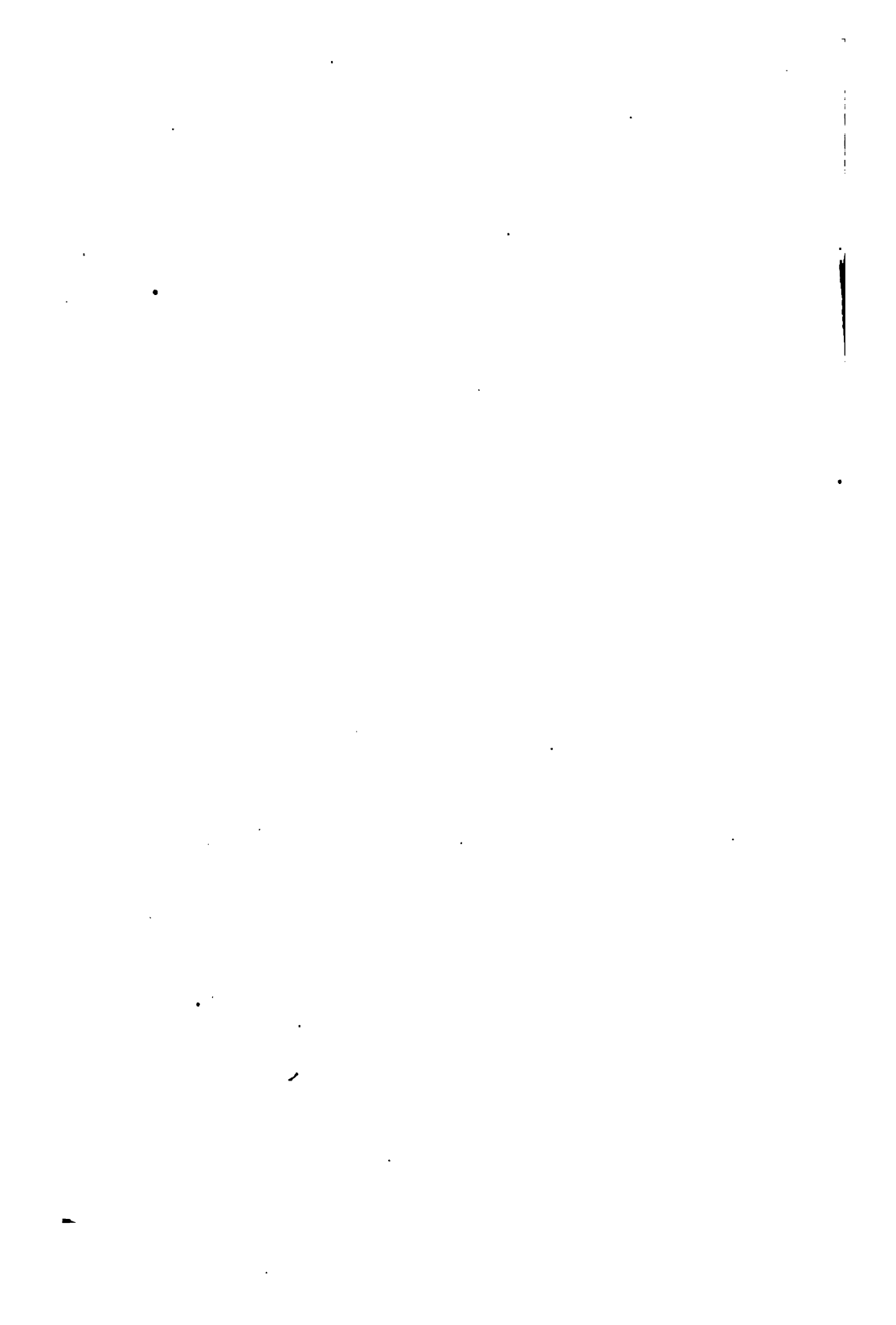
	In.	No.
Hydrants set in 1881.....	4	132
Hydrants set in 1881.....	6	5
Total Hydrants set in 1881.....		137
Hydrants in use December 31st, 1880		998
Total.....		1,135
Hydrants changed in 1881.....		11
Total Hydrants in use December 31st, 1881.....		1,124

CISTERNS CONNECTED IN 1881.

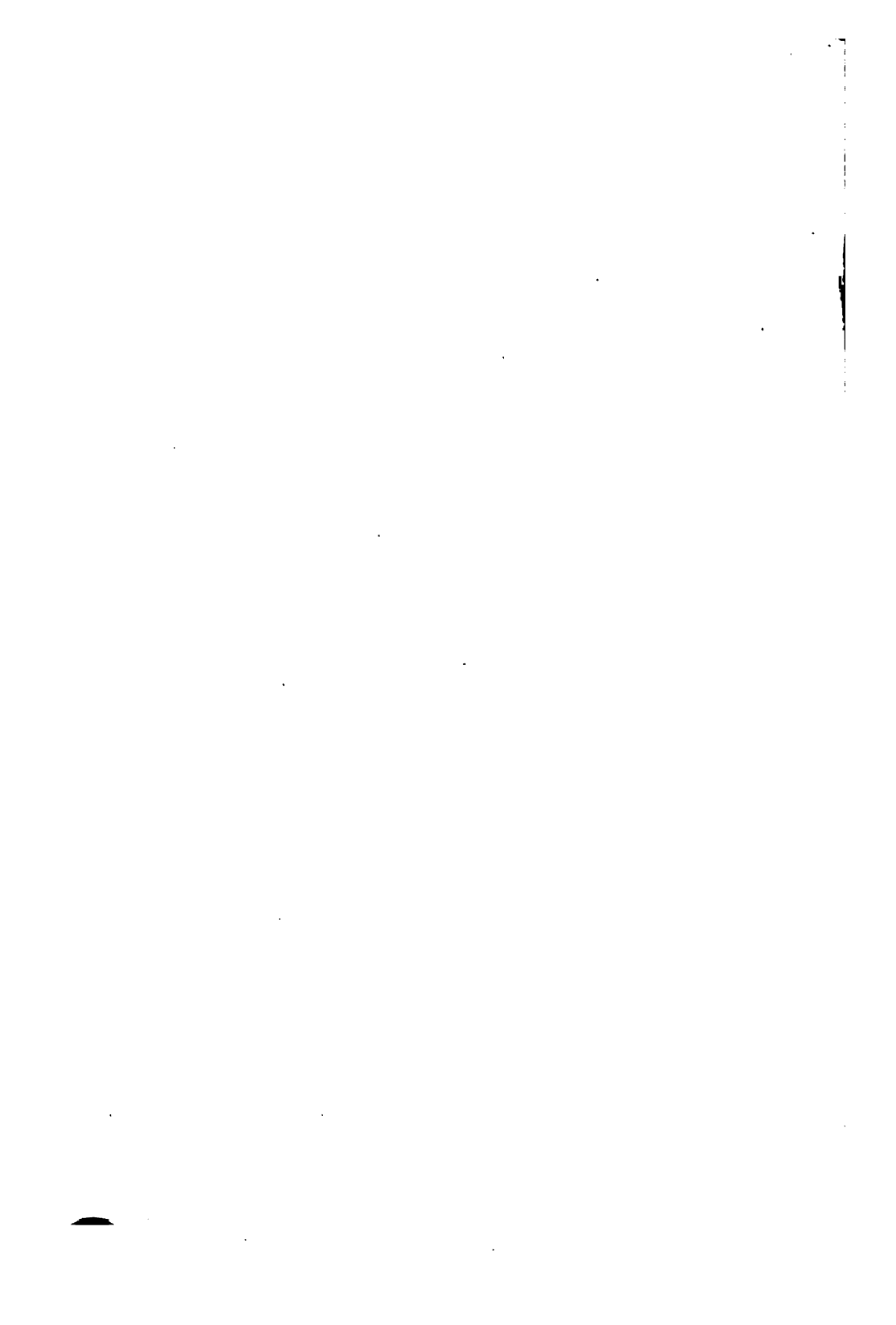
No.	SIZE.	STREETS.	SIDE.	LOCATION.
1	4 in.	Brook	East.	277 ft. N. of Bradford extension and 19 ft. W. of E. L. Brock street.
1	4 "	Doan.	West.	20 ft. S. of N. L. of Wilbur st. and 20 ft. W of E. L. Doan street.
1	4 "	Oakland	East.	20 S. of Stone st. and 33 ft. E. of W. L Oak-land street.
4	4	Total Cisterns Connected.		

RECAPITULATION.

Pipe Extension.....	\$ 79,244 08
General Repairs	8,306 32
Office and General Expenses	21,684 57
Engine House Expenses	35,608 96
Engine House Repairs	564 68
Aqueduct Connection.....	9,545 25
Water Meters.....	5,243 23
New Boiler House.....	23,079 22
New Engine and Boiler.....	43,187 94
Total.....	<hr/> \$226,546 36



TENTH ANNUAL REPORT
OF THE
BOARD OF
POLICE COMMISSIONERS,
OF THE
CITY OF CLEVELAND, OHIO,
FOR THE
YEAR ENDING DECEMBER 31st, 1881.



ORGANIZATION.

R. R. HERRICK,
Mayor and Ex-officio President.

Commissioners :

W. H. GABRIEL.
LOUIS HAUSHEER, to April 1881.
GEO. W. SHORT,
J. R. SPRANKLE,
J. H. BRADNER, since April, 1881.

THOMAS KING, *Secretary.*
JACOB W. SCHMITT, *Superintendent.*
JAS. McMAHON, *Deputy Superintendent.*

HENRY HOEHN, *Captain.*
H. M. HOLZWORTH, *Captain Detectives.*

S. T. EVERETT, *Treasurer.*

EXTRACT FROM REGULAR MEETING OF THE BOARD
HELD JANUARY 16, 1882.

"The Secretary submitted copies of Annual Report of Police Department.

"*Ordered*, That Two hundred and fifty copies of same be printed and bound."

By order of the Board,

THOMAS KING,

Secretary.

TENTH ANNUAL REPORT
OF THE
BOARD OF POLICE COMMISSIONERS
OF THE
CITY OF CLEVELAND.

OFFICE BOARD OF POLICE COMMISSIONERS, }
CLEVELAND, JAN. 1, 1882. }

To the Honorable City Council of Cleveland, O.:

In accordance with an act of the General Assembly of Ohio, passed March 17, 1876, the Board of Police Commissioners have the honor of submitting their tenth annual report, showing the present condition of the Department with the number of arrests made during the year. Nature of the crimes committed. Nativity, occupation, age, social condition of persons arrested disposition made of them by the Police Court, census, tables and such other statistics regarding the condition of the Department as may be of interest to your Honorable Body and the people of the city.

THE BOARD.

Since the last Report there has been one change in the *personnel* of the Board. The time of Commissioner Hausheer having expired, the citizens at the last Spring election elected J. H. Bradner to fill the place formerly occupied by Commissioner Hausheer.

The Board at present is made up by the following citizens:

	Term Expires.
R. R. HERRICK, <i>Mayor and Ex-Officio President,</i>	- 1883
J. R. SPRANKLE, - - - - -	1882
GEO. W. SHORT, - - - - -	1883
W. H. GABRIEL, - - - - -	1884
J. H. BRADNER, - - - - -	1885

THOMAS KING, *Secretary.*

STANDING COMMITTEES.

On Rules, Men and Discipline:

COMMISSIONERS SPRANKLE, GABRIEL AND BRADNER.

On Station Houses, Repairs and Supplies:

COMMISSIONERS GABRIEL, SHORT AND BRADNER.

On Finance and Accounts:

COMMISSIONERS SHORT, BRADNER AND SPRANKLE,

ADDRESS OF COMMISSIONERS.

R. R. HERRICK	- - - - -	City Hall
G. W. SHORT	- - - - -	105 Superior Street
J. R. SPRANKLE	- - - - -	203 River Street
W. H. GABRIEL	- - - - -	50 Michigan Street
J. H. BRADNER	- - - - -	128 Detroit Street

INVENTORY OF PUBLIC PROPERTY.

APPERTAINING TO

THE POLICE DEPARTMENT OF THE CITY OF CLEVELAND.

No.	ARTICLES.	VALUE.
8	Awnings.....	\$ 40 00
1	Book Rest.....	50
2	Beds and Bedding.....	20 00
8	Black Boards.....	8 00
130	Badges, white.....	390 00
20	Badges, gilt.....	100 00
13	Baskets, paper.....	2 50
4	Baskets, other.....	1 25
140	Belts.....	140 00
4	Boxes, letter.....	1 50
30	Brushes, shoe.....	8 00
10	Brushes, other.....	10 00
60	Brooms.....	12 00
18	Brooms, wisp.....	2 00
25	Buckets, cell.....	12 50
20	Buckets, other.....	4 00
1	Buggy.....	50 00
1,152	Buttons, (8 gross) gilt.....	48 00
5 760	Buttons, (40 gross) white.....	200 00
3	Book cases.....	110 00
1	Book rack.....	8 00
200	Books of arrests.....	20 00
12	Boxes Pistol Cartridges.....	20 00
3	Carpets, Brussels.....	20 00
4	Carpets, other.....	30 00
8	City Ordinances.....	5 00
8	City Directories.....	32 00
94	Chairs, common.....	94 00
69	Chairs, cane and splint.....	100 00
24	Chimneys, lamp.....	1 50

THE FORCE--Continued.

Rank.	Name.	Nativity.	First Entry Into Service under Metropolitan law.	Remarks.
Janitor.....	Wm. Jenkins.....	England.....	Dec. 7, 1880.....	
Engineer.....	Alex Smith.....	Ireland.....	April 19, 1878.....	
Patrolman, 1.....	Wm. Anthony.....	United States.....	June 27, 1873.....	
" 2.....	M. J. O'Malley.....	Ireland.....	May 22, 1871.....	
" 3.....	Joseph Stradler.....	Germany.....	Sept. 16, 1878.....	
" 4.....	G. W. Broadwell.....	United States.....	April 14, 1877.....	
" 5.....	M. Enghart.....	Ireland.....	April 8, 1871.....	
" 6.....	A. J. Mart.....	Germany.....	Sept. 18, 1870.....	
" 7.....	John Baskold.....	".....	Jan. 8, 1875.....	
" 8.....	Geo. J. Griffin.....	United States.....	July 12, 1870.....	
" 9.....	A. Manzelman.....	Germany.....	April 20, 1872.....	
" 10.....	E. Shipman.....	England.....	Jan. 31, 1871.....	
" 11.....	M. O'Brien.....	Germany.....	Aug. 1, 1867.....	
" 12.....	R. Rosenfelder.....	".....	May 1, 1866.....	
" 13.....	Killian Dienst.....	".....	".....	
" 14.....	D. W. McCready.....	United States.....	March 6, 1878.....	
" 15.....	C. C. Thomas.....	".....	April 23, 1872.....	
" 16.....	John Dunn.....	".....	Dec. 3, 1870.....	
" 17.....	Wm. Hildebrand.....	Germany.....	Sept. 21, 1872.....	
" 18.....	Phillip Haggerty.....	Ireland.....	May 1, 1866.....	
" 19.....	Alvin S. Jones.....	United States.....	Nov. 13, 1871.....	
" 20.....	John J. Mollan.....	Ireland.....	Aug. 22, 1873.....	
" 21.....	Peter Wilson.....	England.....	April 3, 1873.....	
" 22.....	Patrick Carr.....	Ireland.....	Jan. 8, 1873.....	
" 23.....	Wm. Myhrhalm.....	Ireland.....	Feb. 24, 1872.....	
" 24.....	John Buechler.....	Isle of Man.....	May 1, 1872.....	
" 25.....	John Baron.....	Germany.....	May 1, 1866.....	
" 26.....	Joseph Krenze.....	Ireland.....	Dec. 2, 1873.....	
" 27.....	John Faron.....	Germany.....	May 1, 1866.....	
" 28.....	Jacob Hammel.....	".....	April 20, 1872.....	
" 29.....	Theo Hathaway.....	United States.....	April 30, 1873.....	
" 30.....	W. Haveltebek.....	Bohemia.....	".....	

Acting Doorman.
At Union Depot
Licenses.

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan law	Remarks.
Patrolman, 30	John Williams	Nova Scotia	April 30, 1872	
31	M. F. Ruddy	United States	Oct. 25, 1881	Vice Hildreth.
32	William Vogel	Germany	Nov. 21, 1871	
33	G. A. Domino	"	Jan. 17, 1875	
34	Jacob Boyer	United States	Dec. 4, 1873	
35	Richard Dunn	England	May 1, 1898	Detailed Janitor Second Precinct
36	A. R. Rumsey	United States	Oct. 24, 1877	
37	H. A. Cordes	"	July 28, 1893	
38	H. A. Hibbard	"	May 20, 1881	Vice Hoban.
39	M. F. Wood	"	" 9, 1877	
40	J. M. Brooks	Bavaria	" 4, 1890	
41	S. D. Mell	United States	April 30, 1873	
42	John P. Norton	Ireland	May 8, 1868	
43	Geo. W. Willis	United States	" 1, 1866	Detailed Union Depot.
44	Christian Hennes	Germany	Sept. 23, 1879	Vice Writenour.
45	W. M. Tucker	United States	June 3, 1881	
46	Jacob Gans	Germany	May 30, 1868	
47	Patrick O'Malley	Ireland	June 10, 1875	
48	F. G. Hanks	United States	Dec. 7, 1876	
49	Adam Feizenlogel	Germany	April 13, 1890	
50	C. W. Chittenden	United States	May 31, 1881	Vice Johnson.
51	H. T. Fehlhaber	Germany	April 6, 1877	
52	Patrick Corkill	Ireland	" 13, 1869	
53	Thomas Thompson	England	Nov. 6, 1872	Acting Sergeant.
54	Frank Meyer	Switzerland	Dec. 2, 1879	
55	William Sorge	United States	Nov. 13, 1871	
56	J. W. Johnson	Ireland	" 20, 1876	
57	W. J. Flanigan	United States	May 22, 1879	
58	Richard Reeve	"	April 2, 1873	
59	W. S. Lipps	"	April 20, 1872	Detailed Court officer.
60	Wm. W. Weygandt	"	Sept. 4, 1877	
61	J. H. Hicks	Germany	June 11, 1873	
62	Phillip Salmon	United States	Jan. 3, 1878	
63	E. A. Boynton	"	"	

THE FORCE—Continued.

Rank.	Names.	Nativity.	First Entry into Service under Metropolitan Law	Remarks.
Patrolman, 64	Wm. Smith.....	United States.	Dec. 7, 1880	
" 65	John Sprankle.....	Germany.....	Aug. 6, 1873	
" 66	Peter Ruckman.....	United States	Dec. 2, 1879	
" 67	Chas. Eckard.....	Germany.....	Dec. 8, 1888	
" 68	John Quinn.....	Ireland.....	May 16, 1871	
" 69	George Kadel.....	Germany.....	" 1, 1888	
" 70	Chas. Tressell.....	"	Nov. 29, 1889	
" 71	W. S. Rowe.....	United States	May 18, 1880	
" 72	John Burns.....	Ireland.....	May 8, 1888	
" 73	P. J. Luehrs.....	Heligoland	April 20, 1872	
" 74	Jacob Meyers.....	Germany.....	Nov. 13, 1871	
" 75	A. A. Lawrence, Jr.	United States	" 29, 1874	
" 76	Peter Kadel.....	Germany.....	May 8, 1888	
" 77	G. F. Mog.....	United States	Aug. 8, 1891	Vice Mellrath.
" 78	E. W. Bradley.....	"	April 20, 1875	
" 79	J. W. Varner.....	"	Jan. 21, 1878	
" 80	J. C. Denzer.....	"	Nov. 27, 1878	
" 81	Ostmand Wetzell.....	Germany.....	April 9, 1881	
" 82	Francis Doughlass	Ireland.....	Nov. 13, 1871	
" 83	N. J. Merhoun.....	United States	May 20, 1879	
" 84	F. B. Eustace.....	"	April 19, 1875	
" 85	J. McCormick.....	Ireland.....	April 3, 1874	
" 86	A. J. Barnes.....	United States	Sept. 7, 1871	
" 87	A. M. Blood.....	Ireland.....	Nov. 28, 1874	
" 88	D. Cantillon.....	Ireland.....	Jan. 20, 1875	
" 89	Geo. W. Floyd.....	United States	April 10, 1875	
" 90	L. A. De Celle.....	"	March 1, 1881	
" 91	Geo. E. Corner.....	"	April 30, 1880	
" 92	M. F. Slaby.....	"	Mar. 28, 1873	
" 93	M. W. Murphy.....	"	Sept. 7, 1871	
" 94	Patrick Kennedy.....	Ireland.....	June 10, 1875	
" 95	A. McMillan.....	Canada.....	Feb. 28, 1872	
" 96	J. F. Megerth.....	Switzerland	May 1, 1872	Vice Humphrey.

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan law.	Remarks.
Patrolman, 97	Henry Seibel	United States.	Feb. 5, 1873.	
98	John P. Bramley	England	Nov. 2, 1871.	
99	F. J. Lambert	Germany	" 2, 1871.	Acting Doorman.
100	F. C. Lauger	"	" 23, 1872.	
101	Chas. Fischer	"	July 17, 1874.	
102	S. B. Close	United States	Nov. 2, 1871.	
103	Frank Kulas	Bohemia	May 16, 1878.	
104	J. H. Mangan	Ireland	Sept. 18, 1875.	
105	Chas. McMaster	United States.	Nov. 27, 1878.	
106	Geo. Demaline	"	Mar. 18, 1880.	Vice Allison.
107	Chas. Dangler	"	April 9, 1877.	
108	Geo. D. Scott	"	Sept. 21, 1878.	
109	John Sprosty	Bohemia	Nov. 6, 1872.	
110	Wm. Schnelder	Germany	June 3, 1881.	Vice Demaline—Detailed at Court.
111	W. A. Sherman	United States	Nov. 6, 1872.	
112	J. W. Francis	"	" 6, "	
113	M. M. Mulhall	"	June 28, 1881.	Vice Hageman.
114	J. McGraw	Ireland	April 6, 1877.	
115	Wm. O'Brien	"	Jan. 13, 1873.	
116	Chas. Miller	United States	Mar. 5, 1875.	
117	Isaac Smith	"	April 9, 1879.	
118	Philip Heege	Germany	Feb. 5, 1873.	
119	A. R. Sidley	United States	Jan. 18, 1878.	
120	D. McClusky	Ireland	Feb. 5, 1873.	
121	M. H. Stofer	United States.	" 5, 1873.	
122	J. O'Laughlin	Ireland	" 12, 1873.	
123	Wm. Schmeirlne	United States.	Nov. 23, 1874.	
124	John Schmunk	"	Jan. 15, 1881.	
125	S. L. Miller	"	Nov. 27, 1878.	
126	Chas. Schroeder	"	Nov. 27, 1878.	
127	G. B. Erwin	"	April 19, 1881.	
128	Patrick Synan	"	Nov 19, 1881.	

PENSION ROLL.

Names.	When appointed on Force.	When placed on Pension Roll.
Thomas Hoban.....	September 23, 1871	May 15, 1881.

NATIVITY.

COUNTRY.	Dec. 31, 1880.	Dec. 31, 1881.	Increase.	Decrease.
Bohemia	4	3	.....	1
Canada	2	2	.....	.....
England	8	8	.....	.....
Germany	41	42	1	.....
Heligoland.....	1	1	.....	.....
Ireland.....	30	30	.....	1
Isle of Man.....	1	1	.....	.....
Nova Scotia.....	1	1	.....	.....
Switzerland.....	2	2	.....	.....
United States.....	71	74	3	.....
Total.....	161	163	4	2

PAY OF THE FORCE.

AMOUNT ENTITLED TO BE DRAWN BY THE POLICE DEPARTMENTS
AT FULL TIME DURING 1881.

No.	OFFICERS.	Yearly Compen- sation.	Total.	Grand Total.
1	Superintendent	\$2,000 00	\$2,000 00	
1	Secretary	1,500 00	1,500 00	
3	Captains	1,288 00	3,888 00	
10	Lieutenants	950 00	9,500 00	
8	Detectives	950 00	7,600 00	
8	Sergeants	875 90	7,000 00	
1	Superintendent's Clerk	900 00	900 00	
1	Operator	600 00	600 00	
2	Doorman	600 00	1,200 00	
1	Janitor	720 00	720 00	
1	Janitor	700 00	700 00	
1	Fireman	480 00	480 00	
120	Patrolmen	756 00	90,720 00	
2	Patrolmen detailed	700 00	1,400 00	
1	Patrolmen detailed	825 00	825 00	\$120,033 00

PAY OF THE FORCE.

AMOUNT ENTITLED TO BE DRAWN BY THE POLICE DEPARTMENTS
AT FULL TIME DURING 1882

No.	OFFICERS.	Yearly Compensation	Total.	Grand Total.
1	Superintendent	\$2,150 00	\$2,150 00	
1	Secretary	1,800 00	1,800 00	
1	Deputy Superintendent	1,500 00	1,500 00	
1	Captain	1,400 00	1,400 00	
1	Captain of Detectives.....	1,350 00	1,350 00	
10	Lieutenants.....	1,000 00	10,000 00	
7	Detectives.....	1,000 00	7,000 00	
8	Sergeants.....	950 00	7,600 00	
1	Sergeant, acting	950 00	950 00	
1	Superintendent's Clerk.....	950 00	950 00	
1	Property Clerk.....	900 00	900 00	
122	Patrolmen	840 00	102,480 00	
2	Patrolmen, acting Doormen.....	840 00	1,680 00	
2	Patrolmen, acting Janitors	750 50	1,500 00	
1	Engineer	840 00	840 00	
1	Janitor	750 00	750 00	
1	Janitor	540 00	540 00	
1	Fireman.....	540 00	540 00	\$142,730 00

Adopted by the Board of Police Commissioners on December 6th, 1881, to
take effect on January 1, 1882.

DISTRIBUTION OF THE FORCE.

WHERE STATIONED.	Superintendent.	Deputy Superintendent.	Secretary.	Captain.	Captain of Detectives.	Lieutenants.	Detectives.	Sergeants.	Acting Sergeants.	Patrolmen.	Superintendent's Clerk.	Property Clerk.	Acting Doormen.	Janitors.	Acting Janitors.	Engineer.	Firemen.	Total January 1, 1892.	Total January 1, 1891.
Headquarters.....	1		1		1	2	5			41	1	1	2			1		8	10
First Precinct.....		1		1		2		2									1	53	50
Second Precinct.....						2			1	12					1			16	16
Third and Sixth Precinct.....						2		1		20				2				25	24
Fourth Precinct.....						2	2	1		25					1			31	31
Fifth Precinct.....								2		9								11	10
Seventh Precinct.....						1	1	1		7								9	10
Eighth Precinct.....						1	1	1		8								10	10
Total.....	1	1	1	1	1	10	7	8	1	122	1	1	2	2	2	1	1	163	161

APPOINTED DURING THE YEAR.

Date.	Names.	Age.	Nativity.	Former Occupation.	Social Condition.	- Rank.	No.
January 15. ..	John Schmunk ..	27	United States ..	Carpenter	Married	Patrolman ..	124
February 15.	S. L. Miller ..	45	" ..	Doorman	"	" ..	125
" 15.	Chas. Schroeder ..	23	" ..	"	"	" ..	126
March 1.	L. A. DeCelle ..	26	" ..	Saloon keeper ..	"	" ..	90
April 9.	Ostwald Wetzel ..	40	Germany	Tanner	"	" ..	81
" 19.	Geo. B. Erwin ..	30	United States ..	Sanitary Police ..	Single	" ..	127
May 20. ..	H. A. Hibbard ..	26	" ..	Ship carpenter ..	Married	" ..	38
" 23.	Josiah Johnson ..	34	" ..	Patrolman ..	Single	Sergeant .....	.....
" 23.	E. T. Granger ..	37	" ..	Sergeant	Married	Lieutenant ..	.....
" 31.	C. W. Chittenden ..	37	" ..	Watchman	"	Patrolman ..	50
June 3.	Wm. Schneider ..	32	Germany	Painter	"	" ..	110
" 3.	W. M. Tucker ..	33	United States ..	Coachman	"	" ..	45
" 7.	Alex. Smith ..	41	Ireland	Janitor	"	Engineer .....	.....
" 23.	M. M. Mulhall ..	28	United States ..	Moulder	Single	Patrolman ..	113
June 23.	Jas. McMahon ..	45	Ireland	Captain	Married	Deputy Supt. ..	.....

APPOINTED DURING THE YEAR—CONTINUED.

Date.	Names.	Age.	Nativity.	Former Occupation.	Social Condition.	Rank.	No.
July 5....	George Demalline....	36	United States....	Farmer.....	Married...	Patrolman....	106
August 3....	G. F. Mog.....	33	".....	Railroad man.....	".....	".....	77
" 23.....	M. F. Ruddy....	22	".....	Collector.....	Single.....	".....	31
November 19.....	Patrick Synan.....	32	".....	Barber	Married....	".....	123
" 19.....	George A. Haver.....	40	".....	Special Police.....	Single.....	Janitor.....	.....
December 6....	B. Simmonds.....	50	".....	Plasterer	".....	Fireman.....	.....

MEMBERS OF THE FORCE TRIED DURING THE YEAR.

Date.	Names.	Rank.	Charge.	Sentence.
February 1...	F. B. Eustace	Patrolman, 84.....	Entering saloon while on duty.....	Ordered on duty 60 nights. (1)
March 1...	A. A. Lawrence	Detective	Neglect of duty.....	Reprimand and suspension 60 days. (2)
April 19...	Jacob Stien	Sergeant.....	Sleeping on duty.....	Reprimand.
May 31...	Geo. Demaline.....	Patrolman, 110....	Violating rules.	Dismissed, (3)
July 5...	A. D. Hildreth.....	" 31.....	" ".....	Not guilty.
" 5...	S. L. Miller.....	" 125.....	" ".....	"
August 16...	F. G. Hanks....	" 48.....	" ".....	Reprimand and fine of \$10.00.
Septem'r 6...	Jacob Boyer....	" 34.....	" ".....	"
" 6...	M. I. O'Mally.	" 2.....	" ".....	"

(1) Ordered to duty as River Police, March 20th.

(2) Ordered to duty on March 15th.

(3) Re-appointed Patrolman on July 5th.

CHANGES IN THE DEPARTMENT.

	Superintendent	Deputy Superintendent	Secretary	Captains	Lieutenants	Detectives	Sergeants	Patrolmen	Superintendent's Clerk	Engineer	Doormen	Telegraph Operator	Janitors	Firemen	Total
Remaining last Report.....	1		1	3	10	8	8	123	1		2	1	2	1	161
Appointed during the year.....		1			1		1	15	1	1			1	1	22
Office abolished.....											2	1		1	4
Resigned.....					1			7	1						9
Dismissed.....								1							1
Died.....						1									1
Placed on Pension Roll.....				1				1							1
Promoted.....							1	1					1		1
Remaining.....	1	1	1	2	10	7	8	128	1	1			2	1	163

RESIGNED.—Lieutenant E. E. Morse; Superintendent's Clerk M. J. Haley; Patrolmen Frank S. Allison, John Matzourek, D. A. Writtemour, John Hageman, J. W. Fishaupt, A. C. McIlrath, Jr., A. D. Hildreth, DISMISSED.—Patrolmen George Dematius on May 31st, re-appointed July 20th. DIED.—Detective Theobald Laubsher. PLACED ON PENSION ROLL.—Patrolman Thomas Hoban. PROMOTED.—Capt. James McMahon to Deputy Superintendent; Sergeant E. T. Granger to Lieutenant; Patrolman Josiah Johnson to Sergeant; Janitor Alexander Smith to Engineer.

HEADQUARTERS, PRECINCTS, DISTRIBUTION OF MEN AND STATION HOUSES.

HEADQUARTERS

At City Hall, Rooms Nos. 15 and 16. The Board and Secretary occupy No 15, the Superintendent No. 16, and Detectives No. 14. No. 15, second floor, is used for a store room.

PRECINCTS.

The boundaries of precincts remain the same as at last Annual Report, and are as follows:

FIRST PRECINCT.—From the Lake shore along Erie street to Cross street, along Cross street to the River, up the River to the N. Y. P. & O. R. R. track, along said track to Tracy street, along Tracy street to the River, along the River to the Lake shore, along the Lake shore to Erie street.

SECOND PRECINCT.—From the Lake shore along Erie street to Euclid avenue, along Euclid avenue to Case avenue, along Case avenue to the Lake shore, along the Lake shore to Erie street.

THIRD PRECINCT.—From Euclid avenue along Erie street to Cross street, along Cross street to Cuyahoga River, up Cuyahoga River to the N. Y. P. & O. R. R. track, along the track to Kingsbury Run, up Kingsbury Run to Willson avenue, along Willson avenue to Garden street, along Garden street to Hayward street, along Hayward street to Prospect street, along Prospect street to Fern alley, along Fern alley to Euclid avenue, along Euclid avenue to Erie street.

FOURTH PRECINCT.—From the Lake shore up the River to Tracy street, along Tracy street to the N. Y. P. & O. R. R. track, along said track to the C. C. C. & I. R. R. track, along said track to the City Limits, south along the City Limits to the Lake shore, along the Lake shore to the River.

FIFTH PRECINCT.—From the N. Y. P. & O. R. R. track along the C. C. C. & I. R. R. track to the City Limits, south along the City Limits to the River, down the river to the N. Y. P. & O. R. R. track, along said track to the C. C. C. & I. R. R. track.

SIXTH PRECINCT.—From Willson avenue along Quincy street to the City Limits, east, along the City Limits, south to the north boundary line of the Eighteenth Ward, along said boundary line west to Cuyahoga River, down Cuyahoga river to the N. Y. P. & O. R. R. track, along said track to Kingsbury Run, up Kingsbury Run to Willson avenue, along Willson avenue to Quincy street.

SEVENTH PRECINCT.—From the Lake shore along Case avenue to Euclid avenue, along Euclid avenue to Fern alley, along Fern alley to Prospect street, along Prospect street to Hayward street, along Hayward street to Garden street, along Garden street to Willson avenue, along Willson to Quincy street, along Quincy street to City Limits, east, along the City Limits to the Lake shore, north along the Lake shore to Case avenue.

EIGHTH PRECINCT.—All the territory in the Eighteenth Ward, bounded on the north by Union street; on the east, south and west by the Limits of the City.

DISTRIBUTION OF FORCE.

Headquarters—One Superintendent, one Captain one Secretary, five detectives, 8

First Precinct—One Deputy Superintendent, one Captain, two Lieutenants, two Sergeants, forty-two Patrolmen, one Superintendent's Clerk, two acting Doormen, one Engineer, one Fireman, - 53

<i>Second Precinct</i> —Two Lieutenants, one Sergeant, thirteen			
Patrolmen,	-	-	16
<i>Third Precinct</i> —Two Lieutenants, one Sergeant, twenty			
Patrolmen, two Janitors,	-	-	25
<i>Fourth Precinct</i> —Two Lieutenants, two Detectives, one			
Sergeant, twenty-six Patrolmen,	-	-	31
<i>Fifth Precinct</i> —Two Sergeants, nine Patrolmen,			
	-	-	11
<i>Seventh Precinct</i> —One Lieutenant, one Sergeant, seven			
Patrolmen,	-	-	9
<i>Eighth Precinct</i> —One Lieutenant, one Sergeant, eight			
Patrolmen,	-	-	10
Total			163

STATION HOUSES.

The Station Houses are located as follows:

First Precinct—On Champlain street, west of Seneca. This Station contains the offices of the Police Clerk, Captain of the Eastern District, and the Police Court Room.

Second Precinct—Station House is situated on the corner of Oliver and Oregon streets.

Third and Sixth Precincts—On Forest street, between Croton street and Woodland avenue.

Fourth Precinct—On Detroit street, near Pearl. Is the headquarters of the Western District (Fourth and Fifth Precincts).

Fifth Precinct—On Barber avenue, east of Pearl street.

Seventh Precinct—Room No. 1220 Euclid avenue, near Willson avenue.

Eighth Precinct—Station is located on Wales street, Eighteenth Ward.

HEALTH STATEMENT.

	No. of Days Required to be served.	No. of Days Served.	Absent with Leave.	Absent without Leave.	Sick.	Sickness in Family.	Disabled while on Duty.	Suspended from Duty.	Rule 49½ *	Total Absent.	Average Strength of force.
January	4,974	4,622	16		270		24		42	352	100.45
February	4,498	4,271	18	1	167		3		38	227	100.64
March	4,984	4,747	19		150	4		14	50	237	100.77
April	4,834	4,600	18		160	11			45	234	101.13
May	4,950	4,692	46		128	5	14		65	258	159.67
June	4,786	4,527	38	1	112	16	17		75	259	159.53
July	4,954	4,687	48		147		14		58	267	159.80
August	4,945	4,588	89		127	18	2		126	357	159.51
September	4,800	4,462	93		113	5	9		118	338	100.22
October	4,967	4,671	60		115	10	9	3	99	296	100.22
November	4,822	4,496	40		219	4	1	5	57	326	100.73
December	5,022	4,674	50		196	2	29	7	64	348	102.00
Total	58,536	55,037	535	2	1904	70	122	29	837	3,499	100.37

Average yearly attendance—each man.....	343.18 days.
“ “ absence “ “	21.82 “
“ “ daily loss of time “ “	9.58 “
“ “ “ “ with leave.....	1.465 days.
“ “ “ “ without leave.....	.006 “
“ “ “ “ by sickness.....	5.216 “
“ “ “ “ sickness in family.....	.191 “
“ “ “ “ disabled on duty.....	.331 “
“ “ “ “ suspended.....	.079 “
“ “ “ “ Rule 49½.....	2.298 “

} ... 9.58 days.

* Rule 49½ allows each member of the force six days leave of absence each year, at full pay.

STATION HOUSES.

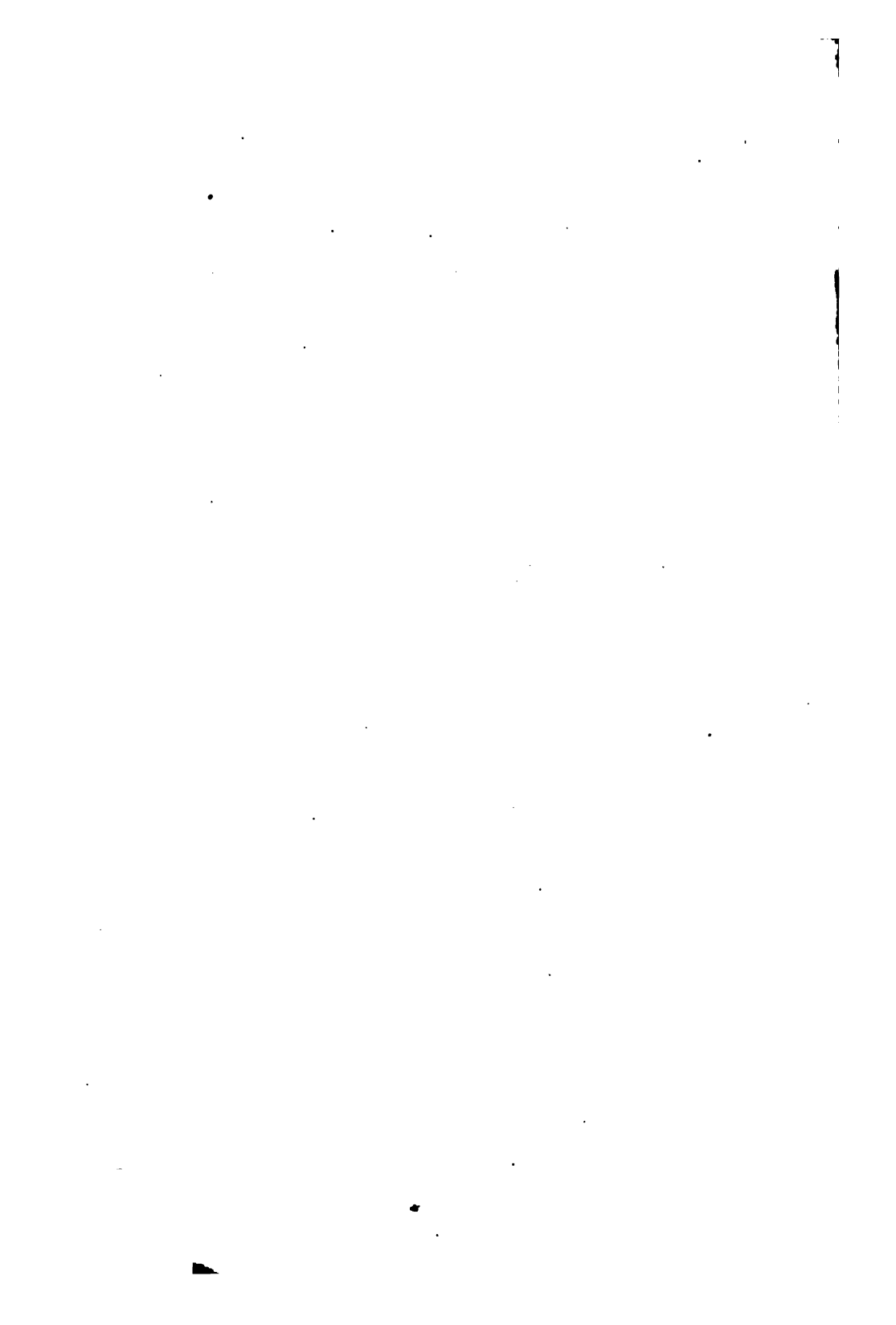
The Station Houses now in use have all been thoroughly cleaned, kalsomined and painted during the year. This work has mostly been done by members of the force and done well.

The condition of the Police Court Room is the same as at our last report, no repairs having been made for the reason that the question of a new court room fronting on Long street is now before the Honorable City Council. Two new Station-Houses are greatly needed, one, say on Broadway in the Fourteenth ward and one on the West Side on or near Swiss street. The power of purchasing lands, erection of buildings, etc., is vested by law "solely in the Board of Police Commissioners" subject to the approval of the City Council for all expenditures of \$500 or over, and as the Police Court Fund now has a credit balance of, about \$9,000 it is probable that steps will be taken toward building these stations in the near future.

ANNUAL REPORT
OF THE
DETECTIVE DEPARTMENT
FOR THE
YEAR ENDING DECEMBER 31st, 1881.

Respectfully forwarded,
J. W. SCHMITT,
Sup't of Police.

JANUARY 13th, 1882.



REPORT OF DETECTIVE DEPARTMENT.

CLEVELAND, O., January 1st, 1882.

J. W. Schmitt, Sup't of Police :

SIR:—The following is a report of the labor performed by the Detective Department during the year ending December 31st, 1881.

THE FOLLOWING ARRESTS WERE MADE DURING THE YEAR.

Assault and battery.....	4
Abusing family.....	1
Assault with intent to wound.....	1
Assault with intent to kill.....	1
Burglary.....	9
Burglary and larceny.....	7
Buying and receiving stolen property.....	1
Cruelty to animal.....	1
Child desertion ..	1
Carrying concealed weapons.....	5
Common thief.....	1
Destroying property.....	3
Drunk.....	21
Disorderly conduct.....	7
Disturbance	9
Disturbing religious meeting.....	1
Embezzlement.....	7
Forgery.....	2
Fugitive from justice.....	5
Grand larceny.....	49
Gambling.....	2
House breaking	1
Incest.....	1

Immoral conduct.....	1
Incorrigible conduct.....	3
Indecent exposure of person.....	1
Keeping gambling house.....	1
Murder.....	1
Obtaining money by false pretenses.....	7
Obtaining goods by false pretenses.....	5
Petit larceny.....	43
Passing counterfeit money.....	1
Resisting officer.....	1
Receiving stolen property.....	5
Robbery ..	2
Seduction.....	1
Slander.....	1
Suspicion.....	58
Stabbing with intent to wound.....	1
Shooting with intent to kill.....	1
Violating pawnbroker's ordinance.....	1
<hr/>	
Total.....	275

STOLEN PROPERTY RECOVERED.

January.....	\$ 135 00
February.....	353 40
March.....	629 00
April.....	926 17
May.....	1,006 59
June.....	1,336 10
July.....	215 50
August.....	738 77
September.....	433 00
October.....	649 25
November.....	922 00
December.....	1,996 00
Total.....	<hr/> \$9,340 78

Much valuable assistance has been rendered to officers from abroad in their search after criminals, and nineteen parties arrested here on felonious charges have been remanded to officers of the following cities:

Alliance, Ohio.....	1
Detroit, Mich.....	1
Pittsburgh, Pa.....	1
Erie, Pa.....	1
Euclid Township, O.....	1
Salem, O.....	1
Uniontown, Pa.....	3
Allegheny, Pa.....	1
Toledo, O.....	1
Chicago, Ill.....	1
Keokuk, Iowa.....	1
Ravenna, O.....	1
Indianapolis, Ind.....	1
Madison, Wis.....	1
Mercer county, Pa.....	1
Meadville, Pa.....	1
Albany, N. Y.....	1
Total.....	<hr/> 19

REPORT OF EMIGRANT OFFICER.

CLENELAND, January 1st, 1882.

To H. M. Holzworth, Captain of Detectives:—I respectfully submit the following report :

During the year ending December 31, 1881, sixty-nine thousand and thirty-nine emigrants arrived in this city, of whom 56,319 came via L. S. & M. S., 8,245, via N. Y. P. & O., and 4,475 via the C. & P. R. R. Eight thousand eight hundred and forty-six settled in this city, from different nations as follows : Germans, 4,709; Bohemians, 1,947; Irish, 810; English, 667; Hungarians, 573; Italians, 23; Swedes, 82; Hollanders, 35.

About sixty-three families arrived here without means or friends, they were mostly Polanders, Hungarians or West Prussians. All these were provided for with employment. Twenty-one families, I sent to the Berea stone quarries, to Mr. Wm. McDermott; nineteen to Amherst, to H. C. Clough; nine to Elyria, for Superintendent A. E. Mussey; and fourteen to the Grafton quarries, for W. E. Miller. The greater part of these families were large in number, and all were comfortably provided for with shelter and food. About seventeen single men were sent to Norwalk to work on the L. S. & M. S. R. R.; forty-eight single men were sent on farms.

Fourteen families went further west, and through the kindness of the railroad official were provided with half-rate tickets. Two went to Milwaukee, five to St. Louis, two to Louisville, two to South Bend and three to Toledo.

Two infants died at the Union depot, and were buried by Hogan & Harris, undertakers.

On May 26, 1881, a German girl arrived here and was afflicted with the small pox; she had an address to some friends in this city, but was taken to the small pox hospital where she finally recovered. This is the only case of this character ever noticed among the emigrants arriving or passing through this city.

Thirty nine dollars and thirty-nine cents were paid out for bread and cheese during the year, and twenty six dollars for Infirmary tickets.

On the 26th of December a family of Polanders (five in number.) arrived here with tickets to Grand Rapids via the Detroit Boat, but navigation having been closed they were provided with passes to Grand Rapids by the L. S. & M. S. R. R. officials.

Annexed find tabular statement of the number of emigrants arriving here by the different routes each month and their nationality, etc.

Respectfully,

HENRY SCHROEDER,

Detective.

RAILROADS.

MONTH.	RAILROADS.			
	L. S. & M. S.	N. Y. P. & O.	C. & P.	Total.
January.....	722	131	76	929
February.....	901	310	214	1,425
March.....	2,843	372	264	3,579
April.....	7,050	916	684	8,650
May.....	10,281	1,875	739	12,895
June.....	8,300	914	578	9,852
July.....	2,900	719	281	3,900
August.....	4,250	617	227	5,094
September.....	4,787	696	384	5,867
October.....	5,093	975	528	7,196
November.....	5,162	752	284	6,198
December.....	3,210	568	216	3,994
Total.....	56,319	8,245	4,475	69,039

NATIONALITIES SETTLED IN THE CITY.

MONTH.	Germana.	Bohemians.	Irish.	English.	Hungarians.	Italians.	Swedes.	Hollanders.	Total.
January	53	15	5	7	6	2			88
February	76	9	16	11	23				135
March	283	74	40	34	64				495
April	540	85	119	72	68		7		807
May	674	457	113	82	20		4		1,350
June	318	210	59	65	140	21	42		804
July	572	242	52	64	30				966
August	274	93	51	82	41				541
September	414	138	92	76	45			19	784
October	707	330	123	62	48		8	16	1,360
November	520	185	54	48	31		8		846
December	212	94	86	64	51		13		520
Total	4,709	1,947	810	667	573	23	82	35	8,846

COMMUNICATIONS FROM ABROAD.

During the year the following communications were received here:

Circulars	128
Postal cards	443
Letters	450
Telegraph dispatches	314

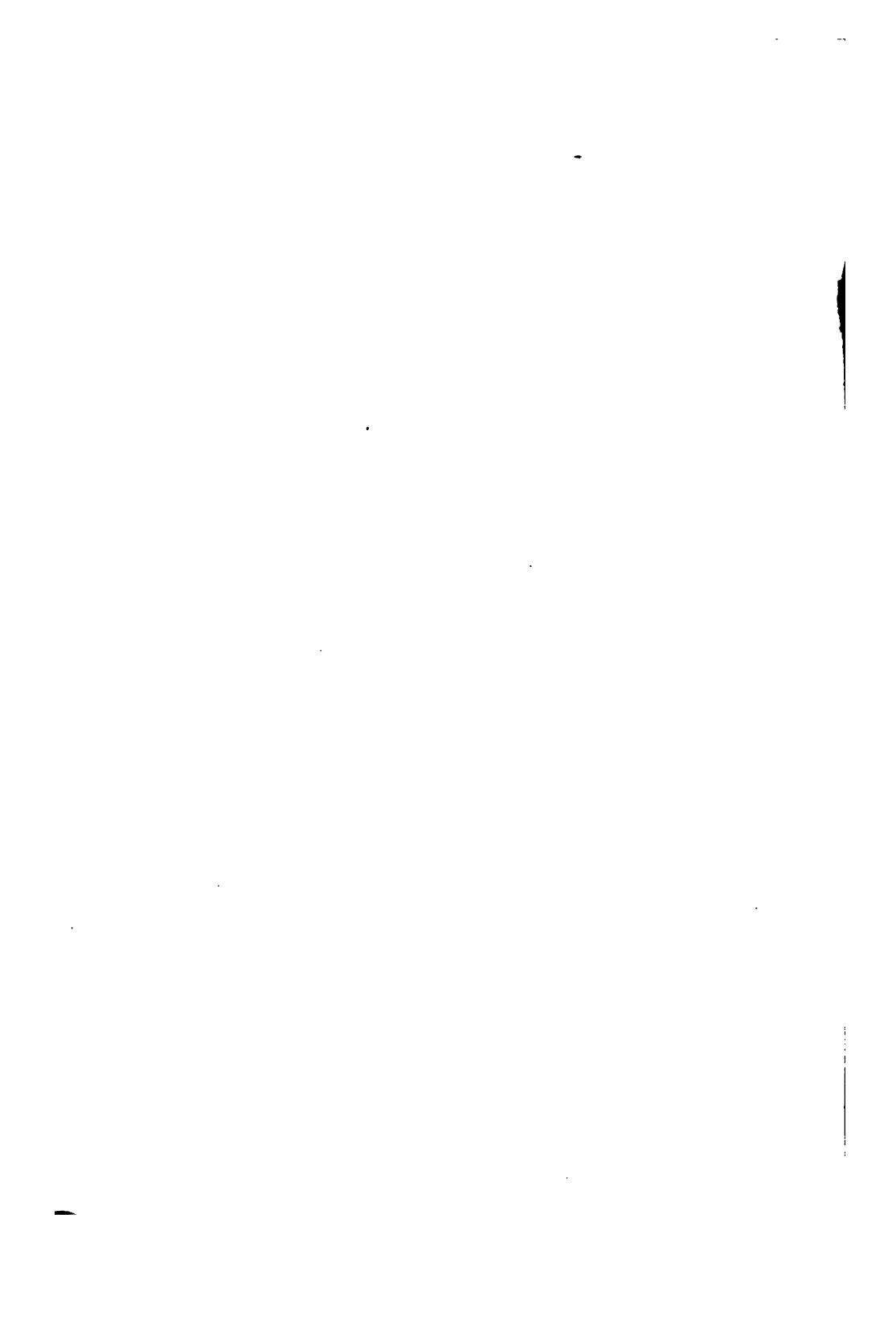
Total..... 1,335

All of which received our attention, requiring the time and labor of the department.

Respectfully submitted,

H. M. HOLZWORTH,

Captain of Detectives.



STATISTICAL TABLES.

The following Statistical Tables show the result of the labors of the Force for the year ending December 31st, 1881, in detail.

SALOONS, HOUSES OF ILL-FAME, THIEVES, ETC.

	First Precinct.	Second Precinct.	Third & Sixth Precincts.	Fourth Precinct.	Fifth Precinct.	Seventh Precinct.	Eighth.	Total—1881.	Total—1880.	Increase.	Decrease.
Saloons	341	137	266	342	116	53	68	1,323	1,271	52	...
Reported houses of ill-fame.....	28	1	...	...	...	...	...	29	48	...	19
" inmates	40	1	...	...	...	...	...	41	90	...	49
" assignation houses	7	1	2	...	...	...	...	10	10	...	...
" prostitutes in rooms...	57	6	5	2	...	...	3	73	77	...	4
" gambling houses.....	1	...	...	1	...	...	...	2	9	...	7
" thieves and suspicious persons	16	88	8	44	6	3	6	171	120	51	...
" resorts for	21	2	...	5	1	...	...	29	29	...	...
" receivers of stolen prop.	6	2	...	...	1	...	...	9	17	...	8

OFFENSES—STATE.

Adultery.....	5
Abusing family.....	1
Assault.....	1
Assault and battery.....	478
Assault and threatening.....	6
Assault with intent to kill.....	10
Assault with intent to rob.....	4
Assault with intent to wound.....	2
Burglary.....	18
Burglary and larceny.....	27
Buying and receiving stolen property.....	7
Bribery.....	1
Carrying concealed weapons.....	64
Contempt of court.....	58
Cruelty to animals.....	14
Cutting with intent to wound.....	21
Cutting with intent to kill.....	1
Destroying property.....	19
Disturbing religious meeting.....	2
Embezzlement.....	20
Endangering life of child.....	1
Escaped from Workhouse.....	1
Forgery.....	8
Fornication.....	4
Fugitive from justice.....	18
Gambling.....	7
Grand larceny.....	73
Highway robbery.....	1
Horse stealing.....	6
House breaking.....	4
Incest.....	1
Incorrigible conduct.....	39
Intoxication.....	82
Intimidating witness.....	1
Illuminating with gasoline.....	7
Keeping house of ill-fame.....	26
Keeping gambling rooms.....	3
Keeping rooms for gambling.....	1

Murder.....	1
Manslaughter.....	1
Maiming.....	2
Maliciously injuring property.....	2
Obstructing officer.....	21
Obtaining money by false pretenses.....	13
Obtaining property by false pretenses.....	5
Obscene model.....	1
Petit larceny.....	376
Passing counterfeit money.....	3
Posting bills without consent.....	4
Receiving stolen property.....	9
Receiving and secreting stolen property.....	6
Resisting officer.....	11
Robbery.....	22
Rescue by force.....	2
Selling intoxicating liquors to persons intoxicated.....	1
Selling liquor to minors.....	6
Shooting with intent to kill.....	7
Shooting at with intent to kill.....	1
Shooting with intent to wound.....	2
Stabbing with intent to wound.....	1
Seduction.....	1
Threatening in a menacing manner.....	1
Violating railroad law.....	23
Violating election liquor law.....	4
Violating pawn brokers' law.....	3
Visiting house of ill-fame.....	1
Visiting gambling rooms.....	4
Wrongfully using animals.....	10

MISCELLANEOUS.

Insane.....	8
Violating Internal Revenue law.....	1
Total.....	<u>1,545</u>

OFFENSES—CITY.

Abusing family.....	30
Careless driving.....	23
Common beggar.....	15
Common prostitutes.....	26
Common thief.....	1
Contempt of Court.....	3
Destroying property.....	67
Disorderly conduct.....	560
Disturbance.....	430
Driving through funeral procession.....	1
Fast driving.....	14
Habitual disturber of the peace.....	5
Habitual drunkard.....	1
Indecent conduct.....	46
Indecent exposure of person.....	8
Intoxication.....	3,376
Immoral conduct.....	2
Keeping disorderly house.....	8
Keeping gambling house.....	20
Keeping house of ill-fame.....	4
Lewd Behavior.....	3
Permitting rooms to be used and occupied for the purpose of gam- bling.....	1
Residing in house of ill-fame.....	52
Shooting within city limits.....	1
Suspicious persons.....	194
Vagrancy.....	173
Violating bathing ordinance.....	9
" barber ".....	1
" ball ".....	4
" bread ".....	1
" billiard ".....	7
" boot black ".....	20
" bridge ".....	11
" cabs and hacks ordinance.....	12
" coal ordinance.....	2
" cemetery ordinance.....	1
" dog ".....	2

Violating exhibition ordinance.....	1
" express ".....	10
" election liquor ordinance.....	4
" fire ordinance.....	2
" fire arms ordinance.....	15
" fire escape ".....	2
" hay ".....	1
" harbor ".....	1
" health ".....	60
" junk ".....	11
" kite ".....	10
" market ".....	13
" milk ".....	4
" music ".....	7
" park ".....	8
" peddlers ".....	36
" pound ".....	20
" property ".....	59
" railroad ".....	88
" sidewalk ".....	157
" street ".....	86
" sewer ".....	2
" sprinkling ".....	1
" street railroad ".....	45
" " music ".....	4
" sleigh bells ".....	22
" Sunday ".....	3
" " liquor ".....	14
" Viaduct ".....	25
Visiting gambling rooms.....	11
Visiting house of ill-fame.....	43
Violating Water Works ordinance.....	6
Violating weights and measures ordinance.....	6
Total	5,920

OCCUPATIONS.

Actors.....	2
Actress.....	1
Agents.....	61
Architects.....	1
Artists.....	5
Auctioneer.....	1
Ax makers.....	3
Banker.....	1
Basket makers.....	7
Bakers.....	33
Barbers.....	36
Bar tenders.....	39
Beer peddlers.....	1
Beggars.....	8
Bell boys.....	
Blacksmiths.....	87
Boatmen.....	20
Boiler makers.....	71
Bolt makers.....	4
Book binders.....	2
Book keepers.....	27
Boot blacks.....	42
Box makers.....	2
Bottlers.....	4
Bill posters.....	3
Brakemen.....	12
Brewers.....	10
Brick layers.....	19
Brick makers.....	11
Bridge builders.....	4
Brothel keepers.....	16
Broom Makers.....	4
Brush makers.....	8
Brokers.....	3
Builders.....	11
Butchers.....	48
Burnishers.....	3
Cabinet makers.....	21
Carpenters.....	157

OCCUPATIONS—*Continued.*

Carriage makers.....	14
Carriage painters.....	6
Carriage trimmers.....	6
Caulkers.....	2
Canvassers.....	11
Calico printer.....	1
Capitalist.....	1
Car Inspector.....	1
Car builder.....	1
Cheese maker.....	1
Chambermaids.....	2
Chiropodists.....	1
Chimney sweep.....	1
Chain makers.....	4
Chemists.....	4
Cigar makers.....	48
Civil engineer.....	1
Clerks.....	115
Coachmen.....	10
Coal dealers.....	9
Coal heavers.....	3
Collectors.....	6
Conductors.....	4
Confectioners.....	8
Contractors.....	17
Cooks.....	38
Coopers.....	39
Commercial travelers.....	1
Cow boy.....	1
Cutters.....	3
Curriers.....	6
Deck hands.....	7
Dentists.....	1
Doctors.....	16
Distiller.....	1
Draymen.....	5
Dress makers.....	4
Drivers.....	10
Draughtsmen.....	1

OCCUPATIONS—*Continued.*

Drovers.....	8
Druggists.....	18
Engineers.....	47
Engravers.....	1
Expressmen.....	32
Farmers.....	122
File cutters.....	6
Fish packers.....	1
Filler.....	1
Finishers.....	27
Firemen.....	37
Fish Peddlers.....	4
Foremen.....	11
Foundrymen.....	10
Furniture packer.....	1
Gas fitter.....	6
Gamblers.....	6
Gardners.....	23
Glass blowers.....	4
Glaziers.....	1
Gold buffers.....	1
Grinders.....	4
Grocers.....	18
Hackmen.....	57
Harness makers.....	13
Hedding pegger.....	1
Heater.....	14
Helpers.....	13
Hotel clerks.....	1
Horse jockeys.....	5
Horse shoers.....	5
Hostlers.....	52
Hotel keepers.....	3
House keepers.....	406
House movers.....	10
Hucksters.....	15
Ice dealers.....	1
Iron workers.....	11
Inspectors.....	2

OCCUPATIONS—*Continued.*

Janitors.....	9
Japanners.....	4
Jewelers.....	11
Junk dealers.....	17
Laborers.....	1,706
Lawyers.....	24
Lamp lighters.....	1
Laundresses.....	4
Laundrymen.....	7
Livery Keepers.....	10
Keeping gambling room.....	1
Manufacturers.....	4
Machinists.....	156
Masons.....	37
Mechanics.....	3
Merchants.....	32
Message boys.....	4
Medium.....	1
Merchant police.....	2
Missionary.....	1
Milk peddlers.....	13
Millers.....	7
Moulders.....	183
Musicians.....	16
Miners.....	6
Newsboys.....	13
No occupation.....	365
Nut and bolt makers.....	25
Nurses.....	3
Oil refiners.....	3
Office boys.....	2
Organ makers.....	2
Painters.....	124
Paper hangers.....	6
Paper workers.....	19
Pattern makers.....	2
Papers carriers.....	1
Pawn brokers.....	2
Packers.....	8

OCCUPATIONS—*Continued.*

Peddlers.....	106
Plasterers.....	21
Platers.....	4
Plumber.....	13
Polishers.....	31
Porters.....	11
Printers.....	73
Press boys.....	1
Prostitutes.....	155
Puddlers.....	80
Pelt buyers.....	1
Pedestrians.....	1
Priests.....	1
Photographers.....	4
Quarrymen.....	13
Railroad men.....	128
Rag pickers.....	9
Real estate agents.....	9
Reporters.....	2
Restaurant keepers.....	3
Riveter.....	1
Raftsmen.....	1
Rolling mill men.....	186
Roofers.....	29
Sailors.....	819
Salesmen.....	25
Saloon keepers.....	181
Sawyers.....	5
Scale makers.....	1
Sewer builders.....	1
School boys.....	190
School girls.....	13
Seamstresses.....	9
Servants.....	76
Sewing machine men.....	6
Screw cutters.....	2
Ship keepers.....	1
Shovel makers.....	2
Sheet rollers.....	1

OCCUPATIONS—*Continued.*

Ship carpenters.....	19
Shoe makers.....	105
Showmen.....	8
Shooting gallery.....	1
Soldiers.....	2
Soda water makers.....	3
Solicitor.....	3
Splicers.....	1
Sports.....	79
Speculators.....	1
Spile drivers.....	1
Spring makers.....	5
Steel workers.....	6
Stone cutters.....	61
Stone masons.....	15
Stove mounters.....	8
Students.....	3
Stillman.....	1
Street sprinkler.....	1
Street car drivers.....	7
Street walkers.....	2
Stokers.....	1
Superintendent of street railroad.....	2
Soap makers.....	6
Tailors.....	44
Teamsters.....	221
Telegraph operators.....	8
Thieves.....	15
Tinkers.....	8
Tinsmiths.....	41
Traders.....	4
Tramps.....	2
Tugmen.....	12
Turnkey.....	1
Telegraph supply.....	4
Trunk makers.....	3
Truckmen.....	3
Turners.....	7
Umbrella makers.....	1

OCCUPATIONS—*Concluded.*

Undertakers.....	6
Upholsterers.....	2
Varnishers.....	1
Veterinary.....	4
Wagon makers.....	6
Waiters.....	21
Washwomen.....	14
Well diggers.....	6
Wax workers.....	2
Watchmen.....	9
Whittlers.....	1
Whitewashers.....	24
Wheelrights.....	3
Weavers.....	4
Wire workers.....	22
<hr/>	
Total.....	7,465

NATIVITY.

Australia.....	3
Austria.....	7
Bohemia.....	167
Canada.....	278
China.....	1
Denmark.....	2
England.....	447
France.....	28
Finland.....	2
Germany.....	871
Holland.....	14
Hungary.....	35
Ireland.....	1,407
Isle of Man.....	16
Italy.....	29
New Brunswick.....	8
Newfoundland.....	2
Norway.....	4
Novia Scotia.....	6
Poland.....	31
Prince Edwards Land.....	1
Russia.....	14
Scotland.....	182
Sweeden.....	40
Switzerland.....	31
United States.....	3,837
Wales.....	56
West India.....	1
Total.....	7,465

(1)

Undertakers.....	
Upholsterers.....	
Varnishers.....	
Veterinary.....	
Wagon makers...	
Waiters.....	
Washwomen.....	
Well diggers....	
Wax workers....	
Watchmen.....	
Whittlers.....	
Whitewashers..	
Wheelrights...	
Weavers.....	
Wire workers.	

Total.	
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SOCIAL CONDITION, EDUCATION, ETC.

MONTHS.	Social Condition.		Education.		Sex.		Males.		Females.		Color.		Total.
	Married.	Single.	Read and Write.	Unable.	Males.	Females.	Married.	Single.	Married.	Single.	White.	Colored.	
January	165	256	386	35	259	62	133	226	30	32	410	11	421
February	151	231	343	39	325	47	127	208	24	23	371	11	382
March	168	292	411	49	395	65	140	255	28	37	439	21	460
April	200	299	459	40	446	53	170	276	30	23	485	14	499
May	234	415	586	63	578	71	206	372	28	43	635	14	649
June	269	376	589	76	546	99	221	325	48	51	631	14	645
July	254	442	627	69	610	86	217	393	37	49	676	20	696
August	311	498	702	107	718	91	288	450	43	48	785	24	809
September	312	490	713	89	713	89	260	453	52	37	761	41	802
October	258	490	691	57	673	75	229	444	29	46	725	23	748
November	259	408	692	65	601	66	218	383	41	25	641	26	667
December	251	436	617	79	622	65	221	401	30	35	672	15	687
Total	2832	4633	6706	759	6596	869	2410	4186	420	449	7231	234	7465

AGES.

MONTHS.	Under Ten.	Ten to Fifteen.	Fifteen to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and Over.	Total.
January.....	1	5	45	184	98	55	24	9	421
February.....		15	68	125	88	50	31	5	382
March.....		23	51	141	122	71	35	17	460
April.....	3	36	58	145	131	74	37	15	499
May.....	3	30	102	225	143	82	43	21	649
June.....	6	15	60	207	175	110	50	22	645
July.....	4	26	92	248	147	110	43	26	666
August.....	2	41	115	249	214	113	55	20	809
September.....	3	42	91	288	213	95	57	13	802
October.....	4	36	94	273	165	119	36	21	748
November.....	4	28	81	228	174	89	45	18	667
December.....	2	14	77	254	167	118	43	12	667
Total.....	32	311	994	2,567	1,837	1,086	499	199	7,465

SENT TO WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

MONTHS.	Workhouse.				Total Workhouse.	House of Refuge and Correction.				Total House of Refuge and Correction.	Total W'khouse and House of Refuge and Correction.
	Males.	Females.	White.	Colored.		Males.	Females.	White.	Colored.		
January	49	11	57	3	60	2	1	3	.....	3	63
February	39	14	52	1	53	.....	.....	.....	.....	.....	53
March	64	18	74	8	82	9	1	9	1	10	92
April	84	15	92	7	99	2	.....	2	.....	2	101
May	81	7	86	2	88	2	.....	2	.....	2	90
June	112	35	138	9	147	2	.....	2	.....	2	149
July	135	35	159	11	170	.....	1	1	.....	1	171
August	187	36	217	6	223	4	2	5	1	6	229
September	135	38	157	16	173	3	1	4	.....	4	177
October	161	24	173	12	185	3	.....	2	1	3	188
November	112	25	132	5	137	4	.....	3	1	4	141
December	150	26	171	5	176	2	.....	2	.....	2	178
Total	1,309	284	1,508	85	1,593	33	6	35	4	39	1,632

LODGERS.

MONTHS.

January.....	97
February.....	124
March.....	209
April.....	243
May.....	97
June.....	59
July.....	32
August.....	47
September.....	55
October.....	92
November.....	156
December.....	298
Total.....	1,504

FINES AND COSTS COLLECTED.

MONTHS.	Collected by Superintend't of Police.	Collected by Superintend't of Workhouse.	Total.
January	\$1,100 50	\$125 46	\$1,226 05
February	778 34	125 46	903 80
March	1,063 62	358 16	1,421 68
April	1,242 97	125 76	1,368 73
May	1,893 98	418 48	2,312 46
June	2,593 33	400 64	2,993 97
July	3,059 41	595 85	3,655 26
August	3,328 20	608 75	3,936 95
September	3,104 13	854 00	3,958 13
October	3,797 16	1,597 97	5,395 13
November	3,159 89	1,443 59	4,603 48
December	3,119 64	1,452 67	4,572 31
Total	\$28,241 16	\$8,106 79	\$36,347 95

Fines and Costs collected in 1881 \$36,347 95

Fines and Costs collected in 1880 20,451 49

Increase..... \$15,896 46

PROPERTY REPORTED STOLEN AND RECOVERED.

MONTHS.	Stolen.	Recovered.	Per cent. Recovered.
January	\$1,285 25	\$575 00	
February.....	1,075 87	622 12	
March.....	1,045 06	837 32	
April.....	1,242 97	1,388 77	
May.....	1,241 50	1,139 77	
June.....	3,738 02	1,456 75	
July.....	2,075 50	431 00	
August.....	1,953 06	946 86.	
September.....	3,846 35	551 30	
October.....	1,307 25	982 75	
November ..	1,163 60	1,430 70	
December.....	115,906 32	114,245 75	
Total...	\$135,880 75	\$124,508 09	91.63

FINANCIAL STATEMENTS.

POLICE FUND.

1881.		
Jan. 1.	To on hand	\$ 5,798 49
Dec. 31.	" receipts from tax duplicates	122,692 72
"	" receipts from dog taxes	0,051 00
"	" receipts from 143 permits	286 00
Total		134,823 21
Dec. 31.	By paid salaries	\$127,689 00
"	" paid miscellaneous bills	5,751 40
"	" on hand	1,382 81
		134,823 21

POLICE COURT FUND.

1881.		
Jan. 1.	To on hand	\$ 1,795 08
Dec. 31.	To receipts	18,120 70
Total		19,915 78
Dec. 31.	By paid salaries and bills	\$ 10,918 34
"	" on hand	8,997 44
		19,915 78

LIFE AND HEALTH FUND.

1881.		
Jan. 1.	To on hand.....	\$ 3,672 00
Dec. 31.	To Donations	125 00
"	" percentage on rewards.....	37 05
"	" interest.....	10 85
"	" sale of stolen property.....	125 79
"	" two specials.....	10 00
Total		3,980 58
May 1.	By transferred to Pension Fund.....	\$ 3,980 58
		3,980 58

PENSION FUND.

1881.		
May 1.	To received from Life and Health Fund.....	\$ 3,980 58
Dec. 31.	To witness fees.....	1,440 66
"	" service of writs.....	917 90
"	" rewards.....	148 65
"	" eighteen specials.....	90 00
"	" fines.....	10 00
"	" sales of stolen property.....	226 77
"	" interest.....	77 64
Total		6,803 20
Dec. 31.	By paid salaries.....	\$ 270 83
"	" paid bills.....	141 50
"	" paid at death of Detective Laubscher	150 00
"	" on hand.....	6,330 87
		6,893 0

CONTINGENT FUND.

1881.		
Jan. 1.	To on hand.....	\$ 5,829 16
Dec. 31.	To service of writs.....	2,885 36
"	" " witness fees.....	82 95
"	" " cash returned.....	889 56
"	" " interest.....	171 86
"	" " sales	40 21
"	" " fines.....	20 00
"	" " Gain on cloth sold.....	79 66
Total		9,998 76
Dec. 31.	By paid bills.....	\$ 2,774 32
"	" " on hand.....	7,224 44
		9,998 76

CLOTH ACCOUNT.

1881.		
Jan. 1.	To on hand	\$ 721 08
Dec. 31.	To purchased	1,204 76
"	" " gain on sales.....	79 66
Total		2,005 50
Dec. 31	By sales.....	\$ 1,358 01
"	" " on hand.....	647 49
		2,005 50

MUSIC PERMITS.

1881.		
Dec. 31.	To issued 143 at \$2.....	\$ 286 00
Dec. 31.	By paid to City Treasurer.....	\$ 286 00
		286 00

REWARDS.

1881.		
Dec. 31. To received for recovery of stolen property.		\$ 90 00
" " received for extra duty at balls, picnics,		
weddings.....		1,927 00
Total		2,017 00
Dec. 31. By paid to Life and Health Fund.....	\$ 37 05	
" " paid to Pension Fund... ..	149 65	
" " paid to members of the force.....	1,830 30	
		2,017 00

FINANCIAL.

By a comparison with past years our finances are shown to be in good condition. During 1880 we had one hundred and sixty one men while in 1881 we show one hundred and sixty-three. Total expenses of 1880 were \$132,802.61, of 1881 were \$133,440.40. Have paid \$847.80 more for salaries in 1881 than in 1880 and \$210.09 less for miscellaneous expenses, leaving a net increase of \$637.79 for 1881. This includes the unusual expenses attending the funeral of the late President Garfield. If these were refunded to the Police Fund it would show our expenses to have been less in 1881 than in 1880 and the lowest since 1873 with one exception,

We would respectfully call attention to the condition of the Police Court fund. On January 1st, last, this fund had a credit ballance in the treasury of \$1,795 08, on April first it had run down to \$1,183.50, on July 1st it had increased to \$1,219.46, on October 1st to \$3,582.20, and on December 31st it has a credit balance of \$8,997.44 and has paid for much needed repairs at all stations.

On the 19th day of April last the Legislature of Ohio amended the police law by abolishing the Life and Health Fund and establishing the Police Pension Fund. This fund came into existence in this department on the first day of May with a credit ballance of \$3,980.58 received from the old Life and Health Fund, and on December 31st it has \$6,330.87 in the treasury, a gain of \$2,350.89 in eight months, and establishes the fact that it will be self-sustaining, and not cost the taxpayers one cent, its almost entire revenue being paid by that class of citizens who pay but little or no taxes and yet make a Police Department necessary.

When the Pension Fund was established it was feared that the Contingent Fund might be crippled as the Pension Fund took away a large proportion of its receipts, but the Contingent

Fund statement shows that fund to have increased \$1,395.25 during the year and now has a credit balance of \$7,224.44.

The practice of furnishing cloth to members of the department proves entirely satisfactory. During the year we have furnished one hundred and forty-nine men with cloth for overcoats, dress coats, blous, pants and vests as was required, at a cost of \$1,358.01. The cost of trimming and making the same has been \$1,236.70, a total of \$2,594.71, an average of only \$17.42 to each man, and have yet made a gain by the transaction during the year of \$79.66. The cloth furnished has all been of the best "Sullivan" Manufacture and it is not believed that any department in the United States is any better clothed, while the expense is certainly the least.

CONCLUSION.

The Board of Police Commissioners take great pleasure in submitting their tenth annual report to the Honorable City Council and in calling attention to the general condition of the department, the amount of labor performed by so small a force and the economy of the service. In our ninth annual report the attention of the Honorable City Council was called to the small number of men in the department, and since that date application has been made for an appropriation sufficient to increase the force to a reasonable number. The law of 1876 allows one patrolman to every seven hundred and fifty inhabitants "as indicated by the last Federal census." We now have one hundred and twenty-eight patrolmen. The last Federal census shows a population of one hundred and sixty thousand one hundred and forty two (160,142) which would allow two hundred and twelve patrolmen, an increase of eighty-four. If the estimate is made from our population on January 1, 1882, it will show that we should have two hundred and forty-seven patrolman, an increase of one hundred and nineteen. During 1881, as in 1880, we have been obliged to keep a detail along the Cuyahoga river for the protection of vessels and property along the docks. No class of people are more expert than the

class of thieves who infest the water front of any large commercial city and are ready at all hours of the day or night to steal from ship or shore. We are also obliged to detail men at Police Court, on Viaduct, at depots and crossings and thus weaken a force already too small, and the Board most respectfully but earnestly ask for an appropriation large enough to make a reasonable increase of our patrol force.

In September last the funeral of the late lamented President James A. Garfield occurred in this city. That was a week long to be remembered by our force, the weather very hot and uncomfortable, the crowd greater than ever seen in this city or perhaps will be for many years to come. The amount of labor performed by the police force during that week as well as for the following week can hardly be estimated. Men were on duty from eighteen to twenty hours out of ever twenty-four and no one complained. On September 21 the Board called into service one hundred and sixty one citizens and commissioned them as special patrolmen for duty during the funeral obsequies and also asked assistance from the authorities of several neighboring cities. This request met with a prompt response and officers reported from Washington, Providence, Buffalo, Pittsburg, Erie, Toledo, Detroit, Chicago, St. Louis and Cincinnati, and done efficient service, for which the thanks of the Department are respectfully tendered. The Board respectfully call attention to the statistical tables submitted of the work accomplished since our last report to your Honorable Body, and as affording very substantial proof of the efficiency of the department, and we are well satisfied that a comparison with the reports of any city in the United States will bring no discredit to Cleveland, and this result we can only attribute to the vigilance of the force in the prevention of crime or in case of its accomplishment to the certainty of arrest and the severe punishment of the offender.

By order of the Board,

THOMAS KING,

Secretary.

**MERCHANT POLICEMEN
APPOINTED DURING THE YEAR 1881.**

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.
J. A. Kavanaugh.....	Academy of Music.....	Feb. 15
John Brush.....	Superior and Euclid.....	March 2
Thos. Burns.....	Along Cuyahoga River.....	" 17
A. Bigelow.....	Haltnorth's Garden.....	April 14
Peter Dusa.....	Viaduct.....	" 21
Fred. Engle.....	Jefferson Street Bridge.....	" 21
R. H. Abbott.....	Main " ".....	" 23
A. E. Goakes.....	Willow " ".....	" 25
G. W. Berry.....	Main " ".....	" 26
John Mullen.....	" " ".....	" 26
A. Hyner.....	Center " ".....	" 27
W. W. Edwards.....	Willow " ".....	May 3
Nell Gallagher.....	Main " ".....	" 3
T. Elmandorf.....	Car Shops.....	" 4
J. P. McGuire.....	Variety Iron Works.....	" 4
C. E. Williams.....	" " ".....	" 4
T. C. Henry.....	Car Shops.....	" 6
J. Disberger.....	Burgholtz's Garden.....	" 11
Albert Woods.....	Boat House.....	" 11
Chas. Brickman.....	Cuyahoga Furnace.....	" 12
John Matzourek.....	Lied's Garden.....	" 26
James Farasey.....	Valley R. R. Company.....	" 26
James Hart.....	Dahler's Garden.....	" 28
Thos. Carew.....	Euclid and Superior.....	June 2
H. Feldcamp.....	Ontario and Champlain.....	" 25
A. Gehris.....	Lied's Garden.....	" 25
D. A. Udall.....	Street Department.....	July 2
Fred. Kuntz.....	" ".....	" 2
J. E. Jones.....	" ".....	" 2

MERCHANT POLICEMEN—*Concluded.*

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.
G. Mitschel.....	Somers' Garden	July 2
C. S. Ruggles.....	Street Department	" 2
Wm. Lambenus.....	" "	" 2
J. C. Siegrist.....	" "	" 2
M. Kehoe.....	Parks.....	" 9
O. H. Holsing	Street Department.....	" 11
D. A. Kimball.....	" "	" 11
A. W. Coleman.....	Viaduct.....	" 15
R. H. Abbott.....	"	" 23
Chas. Sherman.....	Monroe Bros. & Co.....	Sept. 13
Thos. Tomkins.....	Stock Yards	" 29
I. P. Sobey.....	Viaduct	Oot. 17
Jas. Sanderson.....	E. C. Street R. R. Co.....	" 23
Wm. Evers	Holy Trinity Church.....	Nov. 4
S. Zechman.....	" " "	" 4
Thos. Connors	Mahar & Brayton.....	" 11

CENSUS OF THE CITY OF CLEVELAND, OHIO.

AS TAKEN BY THE POLICE FORCE DURING JANUARY, 1882.

CENSUS.	1st Precinct.	2d Precinct.	3d and 6th Precinct.	4th Precinct.	5th Precinct.	7th Precinct.	8th Precinct.	Total.
No. Houses.....	2,192	3,440	8,408	6,756	3,743	3,457	2,147	30,143
" Inhabitants.....	16,707	23,168	53,246	40,824	21,281	18,510	12,115	185,851
" Hotels.....	18			11	1		1	31
" Churches.....	18	13	42	29	10	19	8	139
" Schools.....	4	5	40	22	18	13	5	107
" Hospitals.....	1	1	3			1	1	7
" Medical Colleges.....	1	1	1					3
" Cemeteries.....			4	3	2	1	1	11
" Orphan Asylums.....			5	1		2		8
" Public Halls.....	14	5	23	23	5	8	1	74
" " Buildings.....	19	7	11	12	7	9	4	69
" Wholesale Dealers.....	280	4	16	35	20	2	1	364
" Retail ".....	1,021	285	674	714	194	105	61	3,064
" Manufactories.....	396	92	215	126	71	41	19	960
" Foundries and Iron Works.....	25	14	5	13	1	6	1	65
" Rolling Mills.....	1	3	2	1		1	6	14
" Livery Stables.....	32	5	11	10	2	7	5	72
" Lumber Yards.....	25	3		2	3		1	34
" Ship Yards.....	1			4				5
" Vessels at Docks.....	38			248				286
" Armories.....	1		1			1		3
" Depots.....	3					1	1	5
Census January 1, 1882.....								185,851
" " 1, 1881.....								167,413
" " 1, 1880.....								158,207
Increase of 1881 over 1880.....								9,206
" " 1882 " 1881.....								18,438
Percentage of Increase of 1882 over 1881—on Houses.....								5.24
" " " " " Inhabitants.....								11.00

ANNUAL REPORT
OF THE
Telegraph Department,
FOR THE
YEAR ENDING DECEMBER 31ST, 1881.

ANNUAL REPORT OF THE POLICE TELEGRAPH DEPARTMENT.

CLEVELAND, O., January 1, 1882.

To the Honorable Board of Police Commissioners:

GENTLEMEN:—The following is a report of messages transmitted over the Police Department telegraph and telephone wires during the year ending December 31st, 1881, and on record at this office :

	Telegraph Sent.	Telegraph Received.	Telephone Sent.	Telephone Received.	Total.
January.....	127	72	43	16	268
February.....	132	62	39	12	245
March.....	141	71	47	24	283
April.....	111	58	72	26	267
May.....	26	6	102	80	214
June.....			100	233	333
July.....			99	239	338
August.....			86	262	348
September.....			216	217	433
October.....			89	246	335
November.....			94	259	353
December.....			69	209	278
Total.....	547	269	1,056	1,863	3,735

Since June 1st a record has been kept of all messages sent by telephone from Precincts to Precincts and to Headquarters.

The lines have usually been in good working order.

Very Respectfully,

THOMAS KING,

Secretary.

PROPERTY REPORTED STOLEN AND RECOVERED FOR EIGHT YEARS.

	Stolen:	Recovered.	Per cent. Recovered.
1874.....	\$35,559 83	\$17,858 57	50 75
1875.....	50,109 77	29,273 35	58 41
1876.....	34,762 72	24,055 22	69 20
1877.....	37,677 97	30,052 60	79 76
1878.....	29,731 43	23,595 95	80 33
1879.....	21,068 25	13,075 25	62 06
1880.....	28,780 90	24,913 40	86 56
1881.....	135,880 75	124,508 09	91 63

COST OF POLICE DEPARTMENT FOR THE PAST NINE YEARS.

1873.....	\$158,299 18
1874.....	162,770 28
1875.....	163,802 68
1876.....	152,508 30
1877.....	149,459 33
1878.....	145,134 54
1879.....	130,999 33
1880.....	132,902 61
1881.....	133,440 40

Finally, the Board take a just pride in commending this report and accompanying statical tables to the consideration of the Honorable City Council and citizens generally, confident that a perusal will convince all that the affairs of the department under its charge have been faithfully and economically administered.

POLICE PENSION LAW OF CLEVELAND, O.

AN ACT

To amend sections 1941, 1945, 1946, and 1947 of the revised statutes of Ohio.

SECTION 1, *Be it enacted by the General Assembly of the State of Ohio*, That sections 1941, 1945, 1946, and 1947 of the revised statutes be amended to read as follows :

Section 1941. All moneys collected by the police court of such city on account of the service by the police force of writs issued by such court shall be paid to the board of police, and such moneys, together with the moneys received by the board from all sources whatever, the disposition of which is not otherwise provided for by this subdivision, shall constitute a fund to be called the contingent fund, out of which shall be paid all incidental or extraordinary expenses incurred by the board, and the payment of which is not otherwise provided for by subdivision 2, chapter 5, division 5, title XII. of the revised statutes of Ohio. In cities of the second grade, class first, two-thirds of all moneys collected by the police court as aforesaid, together with two-thirds of the moneys received by the board from all sources whatever, as aforesaid, shall constitute the contingent fund, out of which payment shall be made, as above provided.

Section 1945. Fifteen per cent. of all rewards, fees, proceeds of gifts, and emoluments that may be allowed by the board of police to be paid, or given on account of extraordinary services of a member of the police force, all unclaimed money, the proceeds arising from the sale of unclaimed property, and one third of the moneys received by the board from all sources whatever, the disposition of which is not otherwise provided for by subdivision 2, chapter 5, division 5, title XII. of the re-

vised statutes of Ohio, one-third of all moneys collected by the police court on account of the service by the police force of writs issued by such court, and whenever the name of any member of said force appears as prosecuting witness in any case in such court, such witness shall be entitled to one witness fee for one day, which shall be charged by the clerk in the bill of costs, and collected of the defendant in case of conviction, as in case of other witnesses, all witness fees allowed members of the force in the criminal court of the county, all of which fees when collected, and all fines imposed by the board of police upon members of the force for violation of rules shall be paid into the city treasury, and together with the money now in the "police life and health insurance fund," which is hereby transferred for that purpose, and shall constitute the "police pension fund," and the persons who, from time to time, constitute the board of police commissioners of the city, and two members of the police force, to be elected by the members of said force on the first Tuesday of January of each year, except the first election, which shall take place within thirty (30) days from the passage of this act, are hereby declared trustees of such fund, and the president of said board of police shall be the president of the board of trustees hereby created, and the secretary of said board of police shall be the secretary of said board of trustees, and it is hereby made the duty of said secretary to keep a record of the proceeding of said board of trustees and all action taken by it with regard to said fund, and with regard to members of said police force, as herein provided, and said board shall have power to draw such fund from the treasury on the warrant of the President, countersigned by the Secretary, and may invest the same in interest bearing bonds of the United States, the State of Ohio and the City of Cleveland, and have power to draw the same from the treasury for that purpose, and shall make reports to the city council of the condition of the fund on the first day of January of each year.

Section 1946. When a member of the police force has become disabled while in the active performance of official duty,

or has performed faithful service as a member of such force for a period of not less than fifteen (15) consecutive years since May 1, 1866, he may, by a majority vote of all the members of the board of police commissioners, be retired from active service and placed upon the pension roll, and when so retired, shall be paid from the fund provided for in the preceding section a pension of five hundred dollars per year in equal monthly payments. If at any time there should not be sufficient money to the credit of the police pension fund to pay all claims against it in full, claims on account of the death of members of the force, if there be any such, shall be first paid in full, and with as little delay as possible, after which an equal percentage shall be paid upon all other claims to the full extent of the funds on hand, and shall be accepted as payment in full by the claimants. No member of the force shall be placed on the pension roll unless the health officer or police surgeon shall certify in writing that he is permanently incapacitated, either mentally or physically, from performing his official duties, nor unless due notice is given him by the board of its intention to retire him. Officers on the retired list shall be subject to the orders of the board of police commissioners. The board of police commissioners may order them to be re examined by the health officer or police surgeon, and if reported capable of performing active duty, may return them to regular duty. Officers on the retired list may be brought before the board of police commissioners for trial on charges, and shall be subject to the same penalties as officers in active service. Should an officer on the retired list be dismissed by the board of police commissioners, he shall forfeit all further claims upon the police pension fund. The board shall, within thirty days after the death of any member of the force upon the pension roll, or who has been killed while in the execution of his duty, or who has died in consequence of injuries received while in the execution of his duty, pay the sum of five hundred dollars to his widow or minor children, or in case there be no widow or minor children, then to such person or persons as were dependent

upon the deceased for support, but if there be no such dependent person, then no money shall be paid from the fund on account of such deceased member, except a sum not to exceed one hundred and fifty dollars, to be used to defray the funeral expenses. Upon the death of any member of the police force not upon the pension roll; the trustees of the "Pension Fund" shall pay to the widow of the deceased, or other person duly authorized to receive the same, the sum of one hundred and fifty dollars.

Section 1947. The provisions of subdivision 2, chapter 5, division 5, title XII., of the revised statutes of Ohio, with respect to the "Pension Fund" shall not apply to special patrolmen appointed as herein provided at the request and expense of private parties.

Sec. 2. That said original sections 1941, 1945, 1946, and 1947 be and the same are hereby repealed.

Sec. 3. That this act shall take effect and be in force from and after its passage.

THOS. A. COWGILL,

Speaker of the House of Representatives.

R. G. RICHARDS,

President pro tem. of the Senate.

Passed April 19, 1881.

ANNUAL REPORT
OF THE
PROCEEDINGS
OF THE
POLICE COURT,
OF THE
CITY OF CLEVELAND,
FOR THE YEAR ENDING DECEMBER 31st, 1881.

POLICE COURT REPORT.



To the City Council of the City of Cleveland :

NUMBER OF PERSONS ARRAIGNED.

City Cases....	Number persons	5,702	
State Cases....	Number persons.....	1,281	
State Exam- inations.....	Number persons	250	
	Number children brought before Court.....	32	
Total number			7,206

NUMBER OF PERSONS COMMITTED.

City Cases...	To the Workhouse	1,268	
State Cases....	" " "	812	
City Cases....	" " Central Police Station.....	61	
State Cases....	" " " " "	1	
State Cases...	" " County Jail.....	1	
Children... ..	" " House of Refuge and Correction.....	32	
Total number			1,875

NUMBER OF DAYS UPON COMMITMENTS.

City Cases. . .	Made to the Workhouse.....	12,090	
State Cases. . .	" " "	9,744	
	Total number		21,834

FINES AND COSTS ASSESSED.

City Cases..	Amount of fines.....	\$24,443 50	
" " ..	costs	10,122 38	
" " ..	cash overpaid.. ..	19 73	
" " ..	" received for search made on warrants.....	4 80	
" " ..	Amount of fines and costs collected, which were part of the assessments of months prior to the month when collection was made	230 80	
	Total in City Cases		\$34,821 21
State Cases.	Amount of fines.....	\$15,106 00	
" " ..	costs.....	8,523 36	
" " ..	cash overpaid.....	2 73	
" " ..	costs paid in account State Examinations.....	167 71	
" " ..	Amount of fines and costs collected, which were part of the assessments made of months, which were prior to the month when collection was made.....	304 59	
	Total in State Cases		\$24,104 30
	Grand Total fines and costs assessed in both City and State Cases		\$58,925 60

DISPOSITION OF THE FINES AND COSTS ASSESSED.

City Cases..	Amount due City Treasurer	\$15,633 98	
" "	" " Police Commissioner.....	1,933 90	
" "	" " Police Pension Fund.....	1,808 14	
" "	" " Fines and commitments to Work-house.....	10,747 00	
" "	Amount costs and commitments to Work-house.....	2,840 56	
" "	Amount fines and costs upon the commitments made to the Central Police Station..	304 30	
" "	Amount uncollected.....	95 90	
" "	" remitted by the Court.....	287 83	
" "	" costs in cases dismissed.....	610 50	
" "	" " " nulled.....	68 75	
" "	" fines and costs in cases pending upon Petition in Error.....	515 35	
	Total in City Cases.....		\$34,821 21
State Cases..	Amount due County Treasurer.....	\$ 8,678 51	
" "	" " Cleveland Humane Society.....	119 00	
" "	" fines on commitments to the Work-house.....	10,031 00	
" "	Amount costs on commitment to the Work-house.....	2,503 06	
" "	Amount fines and costs upon commitments made to the Central Police Station.....	7 66	
" "	Amount remitted by the Court.....	94 66	
" "	" uncollected.....	386 65	
" "	" costs in cases dismissed.....	1,647 60	
" "	" " " nulled.....	106 50	
" "	" fines and costs in cases pending upon Petition in Error.....	361 00	
" "	Amount costs in cases where bond was forfeited.....	168 75	
	Total in State Cases.....		\$24,104 39
	Grand Total in both City and State Cases.....		\$58,925 60

STATE EXAMINATIONS.

Amount of costs in cases where Defendants were bound over to Court of Common Pleas.....	\$1,512 40	
Where cases were dismissed.....	431 72	
Where cases were nolle.....	200 67	
Total cases		\$2,144 79

WITNESSES' AND JURORS' FEES.

Amount of same certified during the year.		
To the City Auditor.....	\$1,128 50	
To the County Auditor.....	4,363 00	
Total amount.....		\$5,491 50

AMOUNT CASH COLLECTED DURING THE YEAR.

Month of January	\$1,100 57	
" February.....	778 34	
" March	1,063 52	
" April.....	1,173 22	
" May.....	1,868 98	
" June....	2,598 32	
" July.....	3,059 41	
" August	3,325 34	
" September.....	3,104 13	
" October.....	3,797 16	
" November.....	3,159 89	
" December.....	3,119 04	
Total amount.....		\$23,168 53

AMOUNT CASH PAID DURING THE YEAR.

To City Treasurer	\$15,633 98	
To County Treasurer	8,678 51	
To Cleveland Humane Society	119 00	
To Board of Police Commissioners	1,833 90	
To Police Pension Fund	1,806 24	
Total amount.....		\$28,168 53

SUMMARY OF CASES.

CITY CASES.

Intoxication	3,429
Disorderly conduct	450
Disturbance.....	416
Suspicious person	174
Vagrancy.....	158
Violating Sidewalk Ordinance.....	128
Violating Railroad Ordinance	89
Violating Street Ordinance ..	75
Destroying property.....	65
Residing in house of ill fame	46
Violating property ordinance	44
Violating health ordinance.....	43
Indecent conduct.....	42
Visiting house of ill fame	42
Violating Peddlers Ordinance.....	30
Abusing family	28
Common Prostitute ...	28
Violating Viaduct Ordinance	26
Visiting gambling rooms .	25
Violating Street Railroad Ordinance ...	24
Violating Sleigh Bell Ordinance.....	24
Violating Bootblack Ordinance	21
Violating Pound Ordinance.....	19
Careless driving.....	18
Violating Sunday Liquor Ordinance.	17
Violating Sanitary Ordinance.....	16
Fast Driving.....	14
Violating Ball Ordinance.....	12

Indecent exposure of person	11
Violating Junk Ordinance	11
Violating Music Ordinance	10
Violating Hack Ordinance	10
Violating Firearms Ordinance	9
Violating Bathing Ordinance.....	9
Common Beggar	9
Violating Bridge Ordinance	8
Violating Market Ordinance	8
Violating Park Ordinance.....	7
Keeping disorderly house.....	7
Violating Weights and Measures Ordinance	6
Visiting gambling house	5
Shooting in City limits.....	5
Violating Sunday Billiard Ordinance	5
Violating Express Ordinance	5
Violating Water Works Ordinance.....	5
Peddling without license	4
Violating Milk Ordinance.....	4
Habitually disturbing of peace.....	4
Violating Street Car Ordinance.....	3
Violating Fire Ordinance.....	3
Permitting rooms to be used and occupied for gambling	3
Violating License Ordinance.....	2
Violating Coal Ordinance	2
Gambling.....	2
Keeping gambling room.....	2
Violating Bread ordinance.....	2
Violating Building Ordinance	2
Violating Fire Escape Ordinance	2
Defacing property	2
Violating Street Music Ordinance	1
Violating Dog Ordinance.....	1
Violating Hay Ordinance	1
Violating Barber Ordinance	1
Violating Ice and Snow Ordinance.....	1
Violating Wagon Ordinance.....	1

Violating Water Works Rules	1
" Dray Ordinance	1
" Cemetery Ordinance	1
" Exhibition " 	1
" Sprinkling " 	1
" Sewer " 	1
" Hucksters " 	1
Keeping gambling house	1
Rude conduct	1
Cruelty to animals ..	1
Immoral conduct	1
Lewd behavior	1
Common thief	1
Giving away liquor to minors	1
Driving through funeral procession	1
Taking number from building, etc	1
Injuring and defacing building	1
Keeping rooms to be used and occupied for gambling	1
Total number City Cases	5,702

STATE CASES.

Assault and battery.....	481
Petit larceny.....	370
Carrying concealed weapons	61
Contempt of court	57
Intoxication.....	49
Violating Railroad Law.....	29
Keeping house of ill fame.....	28
Incorrigible conduct.....	24
Destroying property.. ..	24
Obstructing officers	17
Cruelty to animals	12
Embezzlement.....	10
Resisting officer.....	9
Violating election liquor law.....	8
Petit larceny and concealing stolen property.....	7
Obtaining money by false pretenses	6
Wrongfully using a mare	6
Illuminating with gasoline... ..	6
Buying and receiving stolen property.....	5
Receiving and concealing stolen property	5
Selling intoxicating liquor to minors.....	5
Assault and threatening.....	5
Adultery	5
Wrongfully using a horse... ..	4
Unlawfully posting bills.....	4
Petit larceny and receiving stolen property.....	4
Cruelty to minor children	3
Fornication.....	3
Receiving stolen property.....	3
Obtaining goods by false pretenses	3
Rescue by force.....	2
Disturbing religious meeting	2
House breaking in daytime and larceny.....	2

Violating pawn-brokers law.....	2
" lottery law.....	1
" street railroad law.....	1
House breaking daytime.....	1
Maliciously injuring property	1
Destroying railroad property	1
Endangering life of child	1
Threatening in a menacing manner.....	1
Intimidating witness.....	1
Obtaining property by false pretenses. .	1
Provoking breach of the peace.....	1
Using unbranded and untested product of petroleum	1
Buying stolen property	1
Injuring property	1
House breaking	1
Posting bills upon building without consent of owner.....	1
Attempting to bribe witness.....	1
Keeping gambling rooms	1
" " house.....	1
Escaping from Workhouse.....	1
Selling liquor to persons intoxicated.....	1
 Total number State Cases	 1,281

STATE EXAMINATIONS.

Grand larceny.....	76
Burglary and larceny.....	32
Robbery	23
Cutting with intent to wound.....	17
Fugitive from justice.....	13
Assault with intent to kill.....	18
Embezzlement	10
Burglary.....	9
Shooting with intent to kill.....	8
Horse stealing... ..	6
Forgery.....	6
Assault with intent to rob.....	4
Obtaining money by false pretenses	4
Receiving and concealing stolen property.. ..	4
Stabbing with intent to wound.....	4
Insane	2
Maiming	2
Incest.....	1
Seduction	1
Murder.....	1
Manslaughter	1
Forging promissory note	1
Assault with intent to wound.....	1
Passing counterfeit money... ..	1
Violating revenue law.....	1
Murder in the second degree.....	1
Assault with deadly weapons	1
Housebreaking and larceny.	1
Shooting with intent to wound.....	1
Obtaining goods by false pretenses... ..	1
Obtaining money and goods by false pretenses.....	1
Attempting to pass counterfeit coin.....	1
Uttering and publishing forged check.....	1

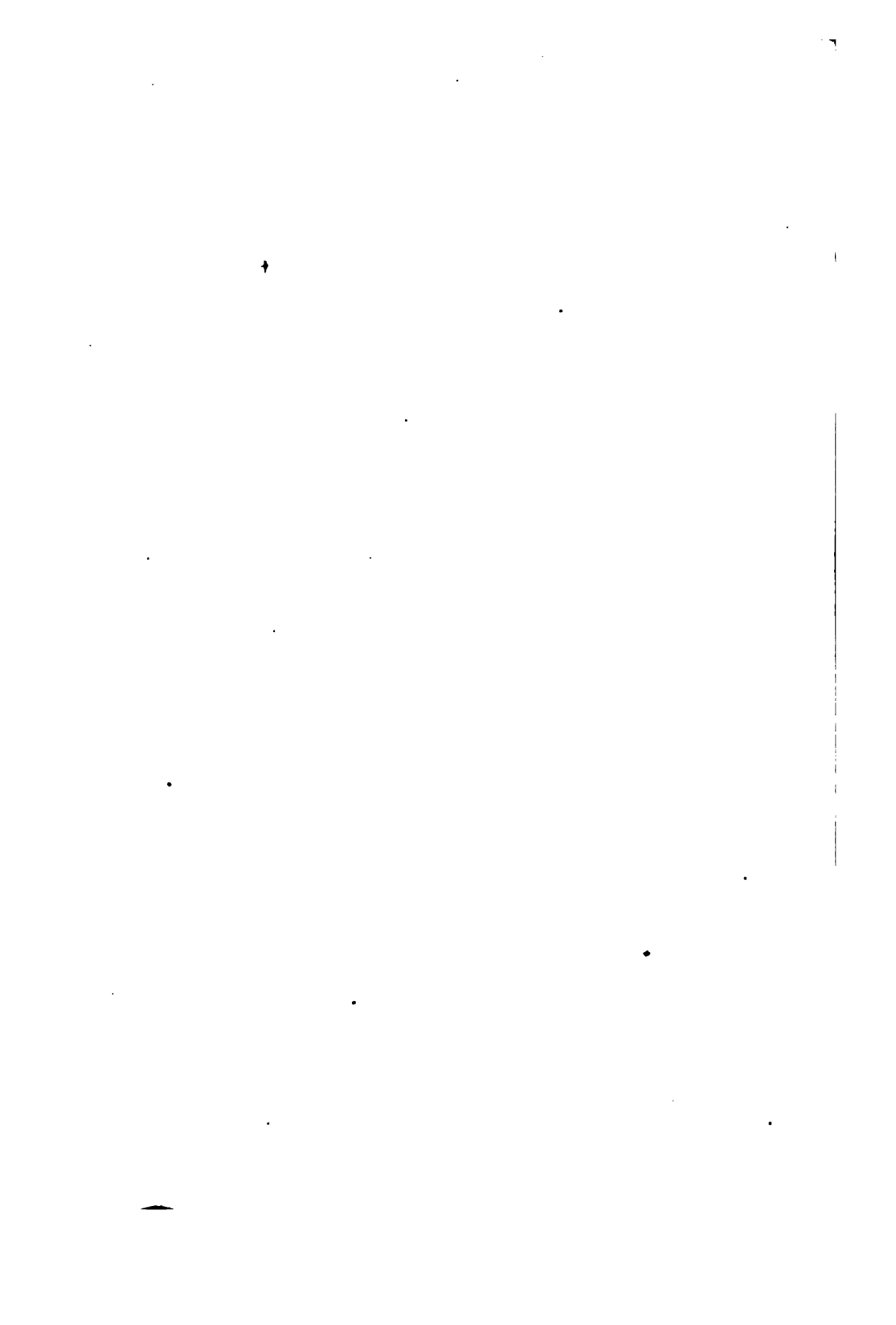
Buying and receiving stolen property.....	1
Receiving stolen property.....	1
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Total number.....	251

Respectfully submitted,

WILLIAM BAXTER,

January 30, A. D. 1882.

Clerk of Police Court.



THE
NINTH ANNUAL REPORT
OF THE
HEALTH DEPARTMENT
OF THE
City of Cleveland,
FOR THE
Year ending December 31, 1881,
BY
G. C. ASHIMUN, HEALTH OFFICER.

ANNUAL REPORT
OF THE
HEALTH OFFICER.

To the Honorable Board of Health :

GENTLEMEN:—A review of the work pertaining to this department of municipal affairs, for the year just closed, involves a consideration of conditions which have prevailed, affecting the public health, and the responsibilities of those whose duty it is to labor for its preservation.

SCAVENGER WORK.

The severe and protracted cold weather of the first four months of the year interfered very seriously with the scavenger branch of department work, thereby causing an accumulation which demanded immediate attention when warmer weather came. It was found that the contractor was unable or unwilling to respond to the call for a force sufficient for the work, and a change became necessary. This was made, to the great relief of citizens and the department. It is to be hoped, with such an experience as a warning, that every possible effort will be made to prevent a repetition of such a condition, whereby it is made necessary to remove an immense quantity of night soil in hot weather. The regular and systematic removal of house-keepers' and shop waste, known as swill, slop and garbage, has been imperfectly accomplished. An opinion from the City Solicitor that there was no authority for the expenditure of money by the city for such a purpose, compelled an abandonment of the former method in midsummer. An arrangement was immediately effected by which citizens could have such waste removed on payment in advance for specified time and

quantity. This plan has not proved satisfactory to any of the parties to it. It would appear necessary that the removal of these substances, which undergo such rapid decomposition, from the immediate vicinity of dwellings, should be provided for as thoroughly and systematically as protection from fire, water supply, or police. And to rely upon the citizens to judge how often or how much shall be removed, leaves the clean to the mercy of the unclean. The legislative action necessary for securing relief in this respect, certainly merits attention. A sufficient scavenger force to remove all such refuse matters with promptitude and care, would lessen many of the dangers from filth, to which the people are exposed.

STENCHES.

As in other years, there has been much annoyance from offensive odors. The action of the board last year, followed by its firmness during this, has caused the removal of some of the worst, and an improvement in many other establishments, from which these odors come. No one establishment or branch of business can be charged with the cause of these odors exclusively. The oil refining, acid restoring, varnish, paint, glue, soap, and chemical works of various kinds all contribute to the offense. While the slaughtering of animals and rendering of fats are responsible for a large proportion. All these offensive gases and odors, arising from these industries, can be classed as "preventable" or "non-preventable." Among those of the first class are those which emanate from places where animals are killed for food. There is no good reason why the blood or other matters should contaminate the air or meat. It is true that at all seasons, and especially in hot weather, great care is requisite to prevent such contamination. There is no doubt that if such work could be centralized, with proper buildings, water supply, drainage and equipments, the inspection, and determination of responsibility for failure to exercise the care necessary, would be rendered efficient. The question is fairly presented whether the time has not now arrived when all en-

gaged in the slaughtering business should not be compelled to perform the work of killing in a common abattoir. One of these places for each side of the river would certainly furnish near accommodation for all. The inoffensive rendering of fats requires simply a care on the part of operators. But a rendering tank which is steam tight, and safe from offense at a pressure of twenty or thirty pounds, may become very leaky and permit great offense with a pressure of fifty or sixty pounds. Material, which is almost free from offense when rendered fresh, may become intolerable in a few hours. And the proprietor who goes to his home, confiding to his employe such work, governed by a rule specifying the amount of pressure, may waken to find his own, and all of his neighbor's houses filled with gases from a rendering tank in his own establishment, where the "rule" was changed. The plan of inspection adopted, whereby all such slaughtering and rendering works were daily inspected, by a man who gave his whole time to this purpose, has been of great service. It is only by experience that a man can justly estimate the causes of offense, in this branch of business. And to secure a permanent correction of defects in care or methods, the inspector, proprietors and operators, should co-operate heartily for the public good. It is a pleasure to record the fact that, as a rule, proprietors of such establishments have shown a wish to comply with the requirements of this department without compulsion.

In regard to those works where substances are handled or produced, which are offensive in character, and the odors from which are more or less unavoidable, whenever the majority of citizens are satisfied, that the city would be better without than with such industries, they can be removed beyond the city's limit. Meanwhile those interested in such works can be made to feel themselves *tolerated* while they maintain a vigilant regard for the public sentiment and good, by reducing the offensive features of their business to the minimum degree. In this connection it is proper to urge the consumption of smoke from coal,—as being unpleasant and possibly unhealthy. Pure air is good food.

DRAINAGE.

While a certain portion of the year has been characterized by drouth, the winter, spring, and autumn months have shown fully an average snow and rain fall. In many portions of the city it is to be noticed that, either from grading of streets, building of street railroads, or natural conformation of the surface, there are many depressions in which water collects. In other portions the surface of the streets, and their grade, has not permitted a ready off flow of the storm water. Slow evaporation or absorption with deposit or sediment has been the result. Much of the refuse from dwellings and shops has found its way into the streets, because of no other provision for it, there to decompose. When the lineal descent in the street is slight, and the lateral "pitch" insufficient to quickly carry the water into gutters, there is not force of current enough to overcome slight obstructions, or carry the partially soluble matters from the surface to the catch basins. Especially is this true when the catch-basins are far apart. This condition of the drainage, or the want of it, on streets where sewers are already constructed, and others where there are none, is one of the gravest sanitary defects the city presents. There still remain some ponds, marshes, and depressions, where water stands, and into which more or less refuse and filth finds its way; which require filling or draining. Some of these undoubtedly give rise to malarial influences. Some are made and used for the ice they furnish. It would appear that such ice could not be safely used for domestic purposes, and it usually is not. But the quality of the ice is only one of the dangers. Where the water stands in most of these ponds during the winter, there collects a foul sediment, which is exposed to the sun during the summer, and malarial influences are developed. The moving of large amounts of earth about the city during the year, in railroad building, contributed a share of the malaria, probably, while stagnant water must be charged with the larger part.

In regard to the value of sewers for other purposes than to convey the storm water from the streets, it has been observed

that many people fail to avail themselves of their benefit, when they might readily do so, for the removal of waste. This reluctance is due, in some instances, to the expense of making sewer connection, with all it entails, and in others to the want of appreciation of the benefits to be derived. With a sewer and water supply, not a few people continue to use privy vaults in the most crowded portions of the city. To remedy this, and to protect people who are anxious to protect themselves, notices have been served in certain districts, to compel sewer connection to be made and vaults abandoned. Much more in this line has been planned for the ensuing spring months. Many streets now destitute, are in pressing need of sewers. A map is annexed, on which are traced those streets where sewers are already constructed, in one color, and those especially needing them in another. In the absence of sewers cess-pools became a necessity, and generally are a dangerous kind of necessity. On many streets the scanty yards are fairly honeycombed with these cells of foul fluid, with gases permeating the soil long after their use has ceased. The saturation and pollution of soil which has occurred in the central portions of the city is likely to be repeated in other portions, until sewer building is regarded a necessity.

In considering the subject of drainage and sewerage, it would be unwise to omit mention of the Cuyahoga river during the summer. At all times it receives a great quantity and variety of material which is, or soon, becomes polluting and offensive. In seasons of high water and strong current, a large portion of what is received is carried to the lake. But when the current is less strong, the burden is greater than it can bear, and is deposited at the bottom. This sediment is stirred by wave and craft, rising to the surface long enough to give off foul gases, or to cause their slower escape by bubbles from the surface. Enough has been said from time to time, and is well known, in regard to the condition of the river, and its tributaries within the city. And all will agree concerning its sanitary importance. But to remedy the evil now and for the future, requires the best consideration and effort which can be

given it. The business interests involved are many and great. In many respects they have been built, dependent upon the river, both for carrying purposes and drainage. Some establishments are situated on so low a plane in relation to the rest of the city that, the river furnishes their only present available drainage. They were located before other portions of the city were built, or the demand for great care existed. These, and other considerations are involved in the subject, but the river must be saved from its present condition as an *immense open sewer*, imperfectly "flushed." When the city exhibits a good example by preventing an inflow of sewage into it, the private citizen will be more readily brought to the same line of conduct.

PUBLIC HEALTH.

The high mortality rate for the year, 20.05 per thousand, has excited great anxiety. What portion of the increase has been due to local causes, or what change in local conditions has contributed to the result, are practical questions. By reference to tables and maps annexed, it may be seen that, about four hundred and eighty deaths have occurred from diarrhoeal diseases under five years of age; and that deaths from these causes occurred in all parts of the city, but were most numerous in proportion where buildings and people were most crowded. That the common or general cause, *heat*, acted as a direct and powerful agent cannot be doubted, from the fact that during the week ending July 2d, with an average temperature of 70.1° F., only six (6) deaths occurred from these causes, while during the week ending July 16th, with an average temperature of 77° F., there were seventy-three (73). This increased degree of infant mortality occurring in connection with the increased and continued degree of heat, which had then been maintained for several days, may certainly be considered as both the direct and indirect cause. And this is true of the season subsequent to the dates named. It is true, however, that local causes may often have directed, or concentrated the effects of the common or general cause, and a fatal result produced, which would not have occurred but for the combination. A map of the city has been prepared and annexed, showing by markings the

location of deaths from this cause. The effects of the long hot season have been observed, upon the death rate among the aged, and those affected by chronic diseases. The weak, either from extremes of age or such disease, were many of them unable to bear the effects of such a season.

In regard to four other causes, which merit special attention, i. e., typhoid fever, diphtheria, scarlet fever, and consumption, it is to be remarked that only the first two and last are commonly considered to be in any measure caused by local conditions, although the cause of death in scarletina is often from the hygienic surroundings of the case. A map similar to the one mentioned is annexed, showing the locality of each death from typhoid fever, and diphtheria. It is proper to say in regard to the last named disease, that it has been noticed that cases of it have been most frequent, where dampness of soil in the immediate vicinity, the cellar, yard, or street, was present, and when the air was laden with moisture. Whether this condition of air and soil, favors the production of a specific germ, or produces a condition of individual, the obvious sanitary measure for its prevention is to avoid the dampness of soil about dwellings, which renders the air and what it carries noxious.

Tests of drinking water have been made, of samples from wells, and from the lake. In eighty-seven samples from wells in use, fifty-nine showed such a degree of contamination from organic matters, as to render them dangerous. In some cases thorough cleaning was sufficient to free the water from such indications; while in other wells and districts, no ordinary cleansing appeared to improve the character of the water. The tests which were made, indicated clearly the fact that, during and for a time following the drought of the summer, the well water supply was generally impure; while after the fall rains had continued for a time, the samples showed a marked improvement. In the districts where typhoid and typho-malarial fever has most prevailed, the wells were found to be unusually low in the *quantity* of water; but in those districts were families that used the *lake supply exclusively*, and yet were not free from fever. Tests have been applied to the lake water from time to time, and it has preserved a remarkable uniform-

ity of purity. Traces of organic matter have been found in it, especially after storms, but there have been few samples of well water found to compare favorably with the supply from the lake. And in this connection, the fact that certain portions or districts of the city would be benefited, in a sanitary point of view, if all wells were abandoned and the lake water supply extended, cannot be overlooked. In many such districts the conformation of soil is such, that basins are formed, and any wells dug in it are certain to contain impure water. Pure water, or water as nearly so as may be, is so essential to health, that it is one of the first duties of our corporation to extend it to every part.

Tests of the milk sold in the city have been made from time to time during the year, and it is gratifying to record that it has been, as a rule, found free from serious adulteration. The necessity for scrupulous cleanliness on the part of milk dealers, was never more clearly demonstrated than during the last hot season. During that period, much of the milk sold in the city had begun to undergo decomposition, before it reached the consumers. This is owing to the effects of the heat and succussion it was subjected to in transportation, in part, but there was a very active aid to the process, in the particles of coagulated milk in the cans, left there from the day before. The report of Prof. Foote, in regard to establishing a standard for pure milk is presented herewith, as exhibiting something more of what has been done in regard to this important subject. Adulteration of other substances used for food, diseased or tainted meats, canned fruits, confectionery, etc., have also been investigated to some extent. The employment of a chemist for the work of analysis necessary, in order to detect and successfully prosecute cases, where impure articles for food are sold, appears desirable. Such work can be well done only in a well equipped laboratory free from interruption. And this subject of food and water, is very closely associated with the mortality rate of the city.

CONTAGIOUS DISEASES.

The tables annexed, show a mortality from Small Pox of one (1), from Scarlet Fever ninety-five, (95) from Diphtheria, one hundred and ninety-six, (196), from Measles, forty-eight, (48),

from Whooping Cough, sixteen, (16). In regard to the first named disease, there were eleven (11) cases within the city during the year. Of these all were removed to the hospital, except two. The case which terminated fatally, was advanced in years and suffering from previous paralysis. Vaccination has been very generally performed, and there is nothing in the experience of the year, to impair confidence in its safety or protection. And it may again be affirmed, that *vaccination cannot be safely neglected as a preventive and modifying measure*, in the attempt to limit the spread, or check the death rate, of Small Pox.

In regard to the care of patients suffering from this disease, those removed to hospital have been in the care of Dr. C. C. Arms, to whose efficient treatment, the small percentage of deaths may be largely attributed. In no instance has there been positive, or even probable evidence that, the disease has spread from the building in which it was found. On the other hand, every case has been traced to probable sources outside the city. While many neighboring cities and towns have been sadly afflicted with this disease, the number of cases here has been small, and the disease failed to gain much foothold.

Scarlet Fever has prevailed during most of the year. Cases reported 340. The city is seldom entirely free from this disease. It may appear strange when such a number of persons die in one year from this cause, any in the community should be unwilling to submit to reasonable restraints and limitations, in the attempt to prevent the spread of the disease. Yet there have been instances of complaint, and a degree of resistance shown to any effort to quarantine such cases.

Recognizing the danger to life, and the contagious character of the disease, the plan of *placarding* the premises has been introduced, that warning should be given of danger. Also a strict enforcement of the ordinance in regard to public funerals. This latter regulation meets with constant hindrance on the part of undertakers, and heads of families, and the penalty of the law has been brought to bear in order to secure respect for it. Unlike some other regulations for the public health, the effort to limit the spread of contagious diseases affects the interests of three distinct parties, *i. e.* the physician who attends and should report the case; the members of the family in their

social and business relations; the undertaker, in the event of a fatal ending, who has charge of the remains. When so many are affected by rules of quarantine it is not strange, perhaps, that violations occur. And it will be only by persistent education in respect to the need of such measures, that they will be finally accepted and regarded as right and necessary, where people live closely together. What is true of scarlet fever is equally so of diphtheria, in chief. (Total cases reported 352). A difference between the two may be named in this, that, while *scarlet fever* is probably always caused by a specific germ which passes from individual to individual, and hygienic surroundings only determine the lodging place and result, *diphtheria* may not only be caused in the same way, but also by bad conditions, with a fatal result as a consequence. These facts are of daily observation and point the moral.

Other contagious diseases have not prevailed at all, generally. Intelligent quarantine, i. e. the separation of the infected from those not so exposed, must be the main dependence in combatting these contagious diseases for which no system of preventive inoculation has yet been discovered. And it is to be hoped that such enlightenment will prevail in regard to the necessity for isolation of the affected, that compulsory measures for the purpose will be rarely required.

SANITATION OF PUBLIC SCHOOLS.

Wherever large numbers of either adults or children, are gathered into rooms for several hours consecutively, certain dangers arise to health. If in addition to being thus congregated, mental occupation becomes so intense that physical conditions are for the time forgotten, additional injuries may occur. An intelligent supervision of schools and school buildings by those who understand the dangers, but whose minds are not engaged in the school work proper, becomes an important care. The Board of Education has had the hearty co operation of this department during the year, in a mutual effort to preserve the physical welfare of all scholars in the public schools. The teachers who come most closely in contact with the scholars

and who have the best opportunity to note the signs of failing health, certainly need all the aid which can be given them, in regard to school hygiene. To acquire such knowledge requires time, and there can, and ought to be, such harmonious action on the part of the Boards most interested, that giving and receiving instruction in relation to the health of scholars and the gathering of the statistics requisite for intelligent action, should be facilitated. This has already been commenced, and good results have been shown. Blank forms might be furnished from this department, upon which such reports from the teachers, and principals of schools could be made, as to furnish reliable information, in regard to the health and development of the scholars, and changes indicated as to improve conditions.

DISTRICT PHYSICIANS.

In the effort to provide medical attendance for those unable to pay for such service, eight district physicians have been employed, one for each general police precinct. The table annexed shows the number of cases treated by them, (total cases, 2,739; visits, 6,723; prescriptions, 8,638,) and the nature of the service. To make such service accomplish the object intended, it is especially requisite that the physicians employed should be conscientious men. It is not difficult to so treat, in manner, a poor person applying for such assistance, that they will not seek it twice. And that such a contingency can be obviated by any rule or guaranty, other than the character of the man, is not probable. On the other hand, such poor persons are to be found, who are extremely exacting in regard to medical attendance, and great judgment and firmness are required to not be overcome by them. The plan of furnishing medicine for certain classes of chronic disease has been pursued during the year, at an expense of less than fifty dollars. There have been very few complaints in regard to want of attention on the part of physicians employed, and there is reason to believe that the object aimed at by this branch of department work, has been acceptably accomplished. The need

of hospital accommodations has been felt at various times during the year, and the fact that the city had no place for strangers, or residents, who were rendered suddenly helpless by accident or disease. There is no place in the city, to which a case of scarlet fever, diphtheria, measles, or venereal disease, can be taken for hospital treatment. With two buildings the size of our "Relief" school buildings, sufficient room would be furnished for such cases. And the district physicians could supply medical attention, which, together with supplies and equipments, would certainly not be a serious drain upon the city funds. There are frequently presented cases which can not properly be sent to the Infirmary, in urgent need of treatment and care, but for which there is no provision. And none of the private hospitals of the city will receive those cases of venereal disease, which so much need early and effective treatment.

SANITARY FORCE.

The labor devolving upon nine men to efficiently patrol, for sanitary purposes, a city embracing such an extent of territory as this, is surely very great. And the nature of the work requires not only vigilance, and proper attention to the duties in regard to time, but an intelligent judgment of men and conditions. It becomes necessary for such patrolmen to not only enforce ordinances and rules specifically, but also to assist and educate many of the people they come in contact with, to see the necessity for care and cleanliness. The inspection and measurement of privy vaults; the serving of notices to build new vaults and supervising the construction of them; house-yard, barn-yard and stable inspection; the disposal of house-keeping waste; the keeping of animals; quarantine of individuals and families affected by contagious diseases; the go-between of landlords and tenants, in regard to the care of premises, together with a *general watchfulness* over the lives and interests of people in regard to health, makes up the common work of patrolmen. It is tolerably certain, that no patrolmen of the present force has been able to attend to all the work

specified, in his large district, to his entire satisfaction. That such work requires the best men in every sense, who can be induced to undertake it, there can be no question. It is a pleasure to record that, the present force of patrolmen have shown a constant interest in their work, and a desire to enforce the ordinances, and rules of the department, without unnecessary irritation. If any imagine it an easy duty to secure cleanliness, and a compliance with orders, among all classes, without force or feeling on the part of an officer at times, such a sentiment would "perish with the using," and the fact becomes very plain that, only with great care and patience, the details of sanitary work are accomplished.

SUMMARY.

In estimating the public health by the death rate of a city or State, it is to be remembered that a day, week, month and year may occur in which there are an unusual number of deaths. Such a year we have just passed. Many of the weak, either from extremes of age, inherited debility of constitution, or chronic disease, have been overcome. Sickness has also reached others who were apparently strong and vigorous. And this, while local conditions have not differed greatly from previous years, except, perhaps, that what had been bad, was intensified in its ill effects by prevailing atmospheric conditions. From statistics gathered and observations made, there is very apparent need for improvement in the more efficient drainage of streets and ponds; in the removal of swill and garbage; the condition of the river; and even more strict quarantine of cases of contagious diseases.

With a grateful sense of the confidence and support shown by the Board during the year, and an appreciation of the responsibilities resting upon the department and its officers, this statement is presented.

G. C. ASHMUN,
Health Officer.

STATISTICAL TABLES.

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ACTUAL MORTALITY FOR 1881.

CAUSE OF DEATH.	Total—1881.	Total—1880.	AGE BY YEARS.														COLOR.		SEX.		SOCIAL RELATION.			Actual death rate per 1,000 in a population of 186,861.						
			Under 1 year.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	Total under 5 years.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 and over.	White.		Colored.	Male.	Female.	Married.	Single.	Widow or Orphan.
Zymotic Diseases	1455	1199	517	196	90	92	64	939	150	38	34	46	35	32	29	19	15	23	23	15	11	28	1441	14	778	677	163	1251	41	7.83
Constitutional Diseases	567	499	91	23	10	2	3	129	8	10	39	47	46	47	45	33	38	22	23	25	26	29	553	14	233	234	255	84	238	8.05
Local Diseases	1312	1080	446	109	57	24	18	654	43	16	23	38	25	38	54	61	56	54	64	57	43	111	1309	33	723	619	405	245	639	7.22
Developmental Diseases	239	238	80	8	1	...	...	89	...	...	...	13	8	9	7	3	1	2	1	...	4	103	237	2	32	147	84	74	81	1.29
Death by violence	124	120	5	6	1	4	2	18	12	7	6	14	17	9	8	8	9	4	4	5	1	2	124	...	103	21	49	16	59	0.66
Total from all causes.	3727	3156	1139	342	159	122	87	1849	218	71	102	158	131	135	143	123	109	105	115	102	86	271	3664	63	1979	1749	956	1673	1098	20.05

Still births reported, 1881, were 249—and in 1880, 154—increase, 96.

NATIVITY.

	Male.	Female.	Total.
Cleveland.....	962	896	1,875
Other parts of the United States.....	294	278	572
Germany.....	281	233	514
Ireland.....	143	116	259
Canada.....	21	31	52
England.....	73	66	139
Bohemia.....	55	30	85
Other foreign countries.....	69	43	112
Unknown.....	66	53	119
Total.....	1,884	1,743	3,727

DEATHS REPORTED IN PUBLIC INSTITUTIONS IN 1881.

Name of Institution.	Male.	Female.	Total.
Charity Hospital.....	17	16	33
City Infirmary.....	61	25	86
Cleveland City Hospital.....	14	2	16
House of Maternity.....	13	8	21
Infant Asylum.....			
Homœopathic Hospital.....		3	3
Workhouse.....	3		3
Good Shepherd.....	5	7	12
Water Cure.....			
Trinity Home.....			
St. Mary's Asylum.....	2		2
St. Joseph's Asylum.....			
Monroe Street Orphan Asylum.....	1		1
Little Sisters of the Poor.....		1	1
Jewish Orphan Asylum.....			
*Cleveland Hospital for the Insane.....	10	6	16
Total.....	126	68	194

*From all parts of the State.

ZYMOTIC DISEASES BY WARDS FOR 1881.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Typhus Fever.	Typhoid Fever.	All Diarrheal Diseases.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Deaths from Zymotic Diseases.	Total Deaths from all causes.	Total Deaths, exclusive of those in Public Institutions.	Population by Wards taken by Police, 1881.	Annual Death rate per 1,000 population, 1881, taken 1881.
First Ward	2	2	4	4	2	1	13	...	6	9	2	15	56	180	178	8,501	21.2
Second Ward	1	...	4	4	4	1	6	1	5	3	...	10	35	120	110	6,172	19.4
Third Ward	2	1	1	2	3	...	5	...	3	...	...	9	25	56	55	3,060	18.3
Fourth Ward	1	4	1	30	1	1	15	...	6	5	...	13	67	229	228	12,585	18.9
Fifth Ward .....	...	6	5	6	4	1	32	...	11	10	...	11	86	229	220	14,360	15.9
Sixth Ward	1	9	24	10	10	...	34	1	20	15	3	29	146	419	363	22,072	18.5
Seventh Ward	6	5	19	16	16	1	35	...	15	12	2	19	130	285	284	11,860	24.0
Eighth Ward	5	1	2	1	1	2	29	...	11	6	1	13	71	109	160	8,219	20.5
Ninth Ward	3	3	2	2	2	...	23	...	12	3	2	10	60	138	133	7,222	18.4
Tenth Ward	1	12	19	1	1	...	33	2	9	2	...	3	82	208	208	10,907	19.1
Eleventh Ward	7	4	20	19	19	...	33	...	10	18	1	4	116	289	288	14,463	19.9
Twelfth Ward	3	5	28	10	10	2	38	...	21	20	...	6	131	320	320	12,480	25.6

ZYMOTIC DISEASES BY WARDS FOR 1881—Continued.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Typhus Fever.	Typhoid Fever.	All Diarrheal Diseases.	Cerebro Spinal Fever.	Other Zymotic Diseases.	Total Deaths from Zymotic Diseases.	Total Deaths from all causes.	Total Deaths, exclusive of those in Public Institutions.	Population by Wards taken by Police, 1881.	Annual Death rate per 1,000 population, 186,851, taken 1881.
Thirteenth Ward.....	1	3	5	9	10	...	15	...	8	20	5	19	94	264	183	8,801	29.9
Fourteenth Ward.....	...	...	13	22	8	2	37	1	6	24	2	8	123	259	259	12,197	20.3
Fifteenth Ward.....	...	...	2	3	5	2	16	...	11	9	...	3	51	112	108	8,283	13.5
Sixteenth Ward.....	...	...	1	2	3	...	11	...	5	4	...	4	32	99	99	5,799	17.1
Seventeenth Ward.....	...	1	...	4	2	...	11	...	1	5	2	6	32	75	75	5,585	13.4
Eighteenth Ward.....	...	1	26	6	8	3	30	...	8	11	3	20	116	271	254	12,115	22.3
Totals	1	48	95	196	109	16	416	5	168	176	23	202	1,455	3,727	3,533	186,851	20.05

ANALYSIS OF MILK.

No. 1.	Specific gravity of milk.	Gravity of Serum.	Cream.	No. of cows.	
Food, Grass.....	1031.07	1028.7	7½	26	Country Milk. Evening Milking.
" Green Oats ...	1031.4	1027.7	6¾	11	
" Middlings.....	1031.38	1027.37	8	14	
" Corn Meal....	1032.2	1028.34	8	10	
General average...	1031.38	1028.15	7½	61	
No. 2.					
Food, brewery grains swill, etc.....	1032.08	1028.5	9½	37	City Milk, Evening.
No. 3.					
Average.....	1031.7	1028.3	8½	108	City and Country Milk.
Highest.....	1036.	1031.	16½	.....
Lowest.....	1029.	1026.	2	.....
No. 4.					
Food, Grass.....	1031.56	1029.04	9	5	COUNTRY MILK.
" Corn Meal....	1031.64	1027.9	9½	5	
No. 5.					
Morning milk.....	1031.84	1029.12	10½	5	
Evening "	1031.5	1028.16	10½	5	
No. 6.					
Whole milk.....	1032.96	1028.5	7½	5	
First half.....	1034.84	1028.9	4	5	
Second half.....	1031.16	1027.72	11	5	

ANALYSIS OF MILK—Continued.

No. 8.	Specific gravity of milk.	Gravity of Serum.	Cream.	No. of Cows.	
Pure Milk	1032.8	1027.8	.....	2	COUNTRY MILK.
Do. 10 per cent. water	1029.	1025.	.....	
Do. 20 per cent. "	1026.8	1022.2	.....	
Do. 30 per cent. "	1024.8	1019.4	.....	
Do. 40 per cent. "	1020.8	1018.2	.....	
No. 7.	No. of cows.	Reaction to test paper.			
		Acid.	Alkaline.	Neutral.	
Food, Grass	26	23			
" Green Oats	11	11			
" Middlings.....	14				14
" Corn Meal.....	10				10
" Brewery grains, etc., with pasture	27	17	2		8
" Brewery grains, etc., without pasture.....	10	9			1

THE
NINTH ANNUAL REPORT
OF THE SECRETARY
OF THE
BOARD OF HEALTH
OF THE
City of Cleveland,
FOR THE
Year ending December 31, 1881,

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Received and ordered published in the ANNUAL REPORT by
the Board of Health, February 24th, 1882.

By order of the Board,

WM. H. FARRAND,
Secretary.



SECRETARY'S REPORT.

OFFICE OF THE BOARD OF HEALTH, Feb. 24, 1882.

To the Honorable Board of Health :

GENTLEMEN:—In accordance with custom and law, I have the honor of submitting the ninth annual report of the Secretary of the Board of Health and for the year ending December 31st, 1881, showing the condition of your finances, number of births, deaths, and other miscellaneous matter.

It has pleased the City Council to make a change in the personal of the Board since my last report. The year for which Drs. A. G. Hart and G. C. Ashmun were elected expired in May last, and the City Council caused to be enrolled among its appointments two new names, Dr. W. H. Humiston and Mr. C. C. Dewstoe, and we now have a board composed of the following citizens:

BOARD OF HEALTH AND OFFICERS AND EMPLOYES.

HON. R. R. HERRICK, MAYOR.

Ex-Officio President of the Board.

MEMBERS OF THE BOARD AND WHEN THEIR TERM OF OFFICE EXPIRES.

WM. H. HUMISTON, M. D., 1883.

H. W. KITCHEN, M. D., 1883

MR. C. C. DEWSTOE, 1883.

J. F. ARMSTRONG, M. D. 1883.

W. J. SCOTT, M. D., 1882.

MR. JOHN D. CREHORE, 1882.

EMPLOYES.

G. C. ASHMUN, M. D., *Health Officer.*

WM. H. FARRAND, *Secretary.*

GEO. ANDERSON, *Inspector of Sewers.*

MISS N. C. PUGH, *Copyist, (temporary.)*

CHARLES KOHLMANN, *Steward Small Pox Hospital.*

MRS. CATHERINE KOHLMANN, *Matron* " "

SANTARY POLICE.

1. C. C. RAND.....	Walworth Run and Slaughter Houses.
2. H. F. BEAKEL.....	2d and 3d wards.
3. F. H. MARSHALL.....	11th, 12th and 13th wards.
4. ALEX. MORISON.....	14th and 18th wards.
5. ALLEN ARMSTRONG.....	8th, 9th and 10th wards.
6. J. W. DWYER	5th and 7th wards.
7. A. G. JONES.....	1st and 4th wards.
8. J. McLARREN.....	15th, 16th and 17th wards.
9. J. C. LARWELL.....	6th ward.

DISTRICT PHYSICIANS.

First Precinct.....	JOHN F. GIBSON.
Second "	WM. C. CRAVEN.
Third "	G. A. ORWIG.
Fourth "	A. S. ADAMS.
Fifth "	FRANK DAYKIN.
Sixth "	F. C. FRANKE.
Seventh "	L. S. CHADWICK.
Eighth "	F. B. NORTON.

Though strict economy was practiced in all branches of this department, I cannot point to a reduction in expenditures, rather the reverse. The Small Pox Hospital and Farm came into your hands under very unfavorable circumstances, or rather the farm did, leased as it was for a term of five years, at two hundred dollars per annum, one and one-half years unexpired, and to a tenant who allowed everything to go to waste. He tilled not the soil, repaired neither fence or road, nor trimmed a tree. A fine vineyard ran wild, and at present a few posts and tangled vine and wire remain. So that your committee in charge have not had an opportunity to effect a change, and now the right-of-way is asked for by a railroad company, which, if granted will run within ten rods of the hospital and not only a right-of-way but a right to ruin the farm and make it anything but a desirable place for a hospital with patients almost sick unto death to have this road encircling (so to speak) the house. The thundering of trains, screeching, puffing and smoke of the locomotive, completes the picture and in no wise improves the farm or hospital. When we contemplate the situation, after having viewed the premises we arrive at the conclusion that

the present building is inadequate and in no way suited for the purpose for which it is used and to maintain will need a considerable outlay in repairs, and further, it is too far to carry patients that are very sick. The road at best is rough and at certain seasons of the year impassable, and, further, the farm is depreciating in value yearly. It is to be hoped the Council will come to the rescue of the board and provide a new and fitting place for this class of unfortunate sick. In view of a possible change the necessary repairs only have been made.

There has been an additional demand on your resources in the care of eleven patients; an increase of ten over last year.

The sum of \$1,173.40 expended to maintain this institution I have classified in the following manner:

EXPENSES OF THE SMALL POX HOSPITAL AND FARM.

Steward and Matron.....	\$300 00
Groceries.....	177 24
Hay and straw.....	145 09
Physician at \$5 per visit.....	115 00
Flour and feed.....	99 34
Meat.....	88 26
Coal.....	55 50
Lumber for repairing building....	38 56
Household goods.....	17 95
Repairing stove and tin ware.....	12 51
Farming utensils.....	7 50
Repairing telegraph line.....	10 00
Medicine.....	10 80
Horse shoeing and repairing harness.....	11 10
Carpenter, making repairs.....	3 50
White wash brush.....	2 25
Toll (1880 and 1881).....	2 68
Rubber cushion.....	2 40
Milk.....	6 40
Sundry.....	12 30
Total.....	\$1,173 40

This is an increase of \$174.48 over 1880.

The general expense account will also show a small increase over 1880. The causes are several; one an increase of three Sanitary Police; another furnishing medicines for certain chronic diseases, and another general activity and attending expenses.

All expenses of this Board except those for Small Pox Hospital and Farm are termed General Expenses and are classified in the following manner:

Sanitary police	\$5,340 88
District physician	3,073 45
Health officer	1,779 57
Secretary	1,000 00
Superintendent of sewers	780 00
Removing swill, 8 months	1,453 69
" garbage	450 00
Printing and stationary	256 87
Badges, hat cords and buttons	106 94
Printing annual report	110 91
Use of horse for inspector of slaughter houses, 4 months	80 00
One Diebold safe	65 00
Vaccine virus	59 96
Case and shelving in office	42 08
Stamps	37 91
Stoves and fixtures	31 85
Advertising	51 76
Car fare for department	26 45
P. O. cards	32 75
Dental surgery	20 00
Extra help in office	12 00
Gas and fixtures	12 07
Rubber stamps and inked ribbon	4 00
Directory	4 00
Cash deposited by mistake in excess receipts	13 50
Cleaning and sign for office	4 50
Sundry bills	7 46
Total	\$14,867 59
Increase over 1880	\$2,967 56

RESOURCES.

Balance on hand from 1880	\$ 47 15
Amount of levy	18,042 84
Rent of small pox farm	300 00
From dead animal contract	902 50
Permits to sell milk	486 00
Slaughter licenses	210 00
Viaduct fund, cleaning vault	13 50
Sale of calf from small pox farm	4 00
Total receipts	\$20,008 19

DISBURSEMENTS

For small pox farm and hospital.....	\$ 1,173 40
For general purposes.....	14,867 59
Total expenditures.....	<u>\$16,040 99</u>
Surplus.....	<u>\$3,975 20</u>

For the past nine years this department has cost annually the following sums:

1873.....	\$23,416 14
1874.....	25,056 58
1875.....	19,549 38
1876.....	16,168 06
1877.....	14,283 18
1878.....	12,483 71
1879.....	12,006 52
1880.....	12,908 95
1881.....	16,000 99

The past long dry season naturally cast additional burdens upon the department. One thousand six hundred and seventy-six complaints were made to me of nuisances. A large part of these are trivial and neighborly spite cause them, but they are all examined into and a remedy suggested if a nuisance is found to exist, but hundreds of complaints are made to the Health Officer and Sanitary Police of which I have no record. One thousand and nineteen permits to build new privies were issued. Two hundred and forty-three permits to remove the dead from this to other cities were granted. Twenty one licenses to slaughter cattle and render tallow at \$10 each were issued, and 483 milk permits at \$1 each were taken out. Milk sold, 9,425 gallons by peddlers and 1,110 gallons by grocers daily. All of which are largely increased over 1880.

The contract for removing swill was cancelled by mutual consent of the contractor and the city on or about August 15th. The cause that led to the discontinuing the removal of swill by the city was on the decision of George S. Kain, Esq., City Solicitor, that the clause in the law authorizing the Board of Health to contract with some reliable person or persons for the removal of swill, etc., did not contemplate the paying of said

contractor or contractors from the funds of said city. That the Board was to provide the contractor, regulate the price and superintend the work, but the person or persons benefited were to pay for the same. In pursuance of this decision the contract was cancelled and a new one entered into in accordance with this version of the law.

Under the *free* system, from January 1st to August 22d, 1,630 requests were lodged with the Board to have swill removed from one to three times a week. Under the pay for benefits received system, from August 22d to November 30th, 114 gave orders and paid for removal of swill once and *twice* a week, none three times a week. Now what did the 1,526 families, boarding houses, etc., who did not pay, do with their swill? Well, that is a hard question and with your permission we will leave time to answer it.

Night Soil: With this branch of the industry the Board has had more than the usual annual trouble. The new contract at reduced rates proved a failure, or at least the contractor failed to keep up with the orders, and June 18th he was removed and a new contract awarded to the next highest bidder, and the old contractor, Mr. Geo. Dart, was allowed to complete the orders on hand, amounting to one thousand and over yards, and December 1st this was completed and a final settlement affected. Mr. A. A. Dettrick, the new contractor, has so far given satisfaction. And below I give the amount removed, money paid and rebates refunded by each contractor for the past year:

Contractors.	Yards removed.	Paid Contract'rs through office.	Paid Contract'rs by outsiders.	Overcharges refunded.
Geo. Dart.....	2,401	\$4,201 75	\$ 125 98	\$ 84 40
A. A. Dettrick.	3,615	5,200 00	...	265 36
Total yards removed.....				6,016
Total cash paid.....				\$9,527 73
Total cash rebates				349 76

The clerical work of this department has greatly increased during the two years just past and the pressure of business is greater than one man can attend to and give all the attention to complainants they may desire, uninterrupted. Frequently no other business can be attended to but that one branch of the department, and it has been frequently necessary to cut a long story short so as to give others in waiting an opportunity to be heard, and when a man wants to tell you how filthy his neighbors are, he feels aggrieved if you cannot listen to the end when a few words had given all the information required or necessary for an official record of reference to the locality, and I would suggest that the Board take into consideration the necessities of the case and provide an assistant or copyist, which would be of great assistance and would relieve your secretary of work he now performs out of the regular business hours.

In closing permit me to thank His Honor the Mayor, President and each member of this Board for your uniform kindness and the numerous courtesies shown to me and to the Health Officer and his assistants in the sanitary department and to the officers and employes of the other city departments permit me here to acknowledge the many favors they have shown me, for which I am under lasting obligations. I am sirs,

Your obedient servant,

WM. H. FARRAND,

Secretary.

SEWER INSPECTOR'S REPORT.

SEWER INSPECTOR'S REPORT.

To the Honorable Board of Health:

GENTLEMEN:—I herewith present my annual report for the year ending December 31, 1881

During the year there were issued the following permits, viz:

To construct new sewers and extensions,	-	631
“ repair sewers	- - - - -	300
“ do new plumbing	- - - - -	594
“ repair plumbing work	- - - - -	44
Total		- - - - - 1,559

The evil effects produced by sewer gas are so well known that it is hardly necessary to refer to them.

There seems to be no doubt that sewer gas is the direct cause of zymotic diseases, and the indirect cause of many others, and that all diseases are aggravated by its presence. The question of most interest to the public, is not, what are the constituents of sewer gas, or is it, *per se*, the cause of disease, or only the carrier of disease germs, but, how shall the public be protected from its obtaining a lodgment in their dwellings. It is highly probable that its capability for mischief is of a dual nature.

In order that we may be fully protected from the inroads of sewer gas, proper attention must be paid to the construction of main sewers and house connections. They must not only be well made, of adequate size and proper inclination, but unless they are well ventilated and kept clean by frequent flushing they may prove a delusion and a snare.

It has happened that the sewerage of a town has increased its mortality, when the sewers were unventilated, whereas, after being ventilated the mortality decreased.

The perforated man-hole covers, or some other means, equally effective, appears to me to be an absolute necessity. I should hesitate to again urge this improvement if I relied only upon theory, but experience in this country, as well as in Great Britain, has fully demonstrated its utility.

In a report on the sewers of 33 cities and towns in Great Britain; 27, with an aggregate population of 2,386,865, and 1,168 miles of sewers, had adopted the system of ventilating at the man holes with the most satisfactory results, after a fair trial, and although at first some objections were made to their introduction, very little complaint, if any, is now made.

By thorough ventilation the temperature of the sewers would be reduced, and septic changes retarded, and by frequent flushing excrementitious matter would be carried off before fermentation commenced, and the formation of sewer gas thereby reduced to a minimum.

The outlets of the sewers should be protected from wind pressure, and this is more of a necessity while the sewers remain unventilated.

Should an intercepting sewer be built the difficulty would be obviated, but the sudden displacement of gas by heavy rain-storms would still require ventilated man-holes to protect ordinary traps from being forced.

The ultimate disposal of sewage for some time to come will doubtless be the lake, and I have no doubt that in the near future it will be carried by tunnel to at least a mile from the shore. By such an arrangement, there could be no possibility of any nuisance along the shore, and if the sewer crib was out one and a half or two miles east of the water crib citizens need have no apprehensions of getting sewage in their lake water; the greater part of the sewage might be discharged by gravitation, although some would require to be raised by steam power.

The disposal of sewage for irrigating purposes has, where soil, climate and other conditions are favorable, been attended with satisfactory results, in a sanitary point of view, but financially it has not proved a success.

During our severe winters irrigation would be unpracticable, and it is not probable that our citizens would be willing to incur the expense of adopting a system which might not be available for three months in the year.

Two methods have been adopted for purification of sewage, viz: mechanical subsidence and chemical precipitation, but neither has proved so successful as to be generally adopted, although experiments are still being carried on in France and England.

In the latter country, under the Rivers' Pollution Act, the discharge of sewage into any river or stream, without previous purification is now prohibited, so far as relates to all new drainage works.

I would again urge the importance of using iron soil pipe in dwellings, placed in such a position that they can conveniently be inspected, but if vitrified sewer pipe is used it ought to be laid in a trench and accessible for inspection. No petty saving can compensate for impaired health from badly laid leaky sewers, covered up from view and emitting deadly sewer gas.

Many of the evils in faulty construction of dwellings are attributable to the contract system. As soon as a builder obtains a contract, half a dozen, more or less, sub-contracts are given out. One has a contract to lay the sewer, another to concrete the cellar, the latter knows nothing of the work of the former, and perhaps cares as little, the sewer may be three inches, or three feet deep. Concrete is laid and pounded down, joints disturbed, or worse still, pipes broken.

Such a case occurred a short time ago where the concrete was driven into the sewer pipe, causing the basement kitchen sink to be flooded when the first rain storm occurred.

It is well known to the Board that through carelessness even

whole lengths of sewer pipe have been omitted, and other imperfect work done. Although such extreme cases are rare, there is no absolute certainty that work is perfectly done, and hence the need of frequent inspection from time to time. Perfectly tight joints should be the rule everywhere, in the street as well as in the lots; if not tight the roots of trees may find their way into the sewer and render them inoperative. This is no fancied evil as every sewer builder can testify.

It is provided in the ordinances that, "no sewer builder or plumber shall allow any one in their employ to do such work unless they are personally on the ground to superintend and direct the same." It would be impossible to enforce this rule; in the case of plumbers it is unnecessary as their work can be inspected, but in the case of sewerage it is different, as each length of pipe as it is laid is covered up. The true method to guard against all contingencies is to have the pipes accessible, and failing this to have them inspected before being covered.

I would respectfully suggest that your Honorable Board appoint a committee to revise and amend the City Ordinances, embracing Rules and Regulations, pertaining to sewerage and plumbing, and recommend the same to the City Council for adoption. In some points they are ambiguous, in others some things are prohibited, which may be allowed, and others allowed which ought to be prohibited.

Although a certain amount of discretion must always be allowed an inspector, it is desirable that the ordinances be as specific as possible.

It would be advisable to invite architects, plumbers, and sewer builders to meet your committee and discuss any alterations or amendments which may be suggested.

The ordinance passed April 9, 1879, Section 4, provides, that "all soil pipes shall, from their highest part be connected by flues or ventilating shaft of specified height." A supplementary ordinance passed June 23, 1879, Rule 20, provides:

"All main, waste or soil pipes UPON AND ABOVE the second floor of any building shall be connected with proper ventilating shafts, as hereafter provided, extending up through the roof, and shall be constructed of cast, or galvanized iron, or other approved material, with soldered or leaded joints, gas-tight." The latter rule would seem to imply that ventilation on the first floor was not compulsory, and advantage may be taken of this ambiguity. ALL SOIL PIPES SHOULD BE VENTILATED. Rule 20, just quoted, allows the ventilating pipes to be of cast or galvanized iron. The latter is considered to be much more liable to oxidation than the former, and ought to be prohibited unless it is in such a position that it can be thoroughly inspected, as in an attic, but on no account should it be allowed in between walls.

The great desideratum in all sewerage and plumbing work is good traps and thorough ventilation.

Independent ventilating pipes are a necessity, and their use should be compulsory and enforced by ordinance; not alone for water-closets, but for bath, wash-stand and sink wastes, more particularly where the distance from the soil pipe is considerable.

The lack of water for flushing water closets is noticeable in large blocks, where there is no independent service pipe, it is almost impossible to have these necessary conveniences kept in a proper condition.

All sorts of irregularities are practiced, and when so many have access to them it is a difficult matter to fix the responsibility, AS A RULE NO ONE IS TO BLAME.

Only the greatest care, on the part of the janitor, if there is one, can long keep such places in a sanitary condition.

Plans for sewerage and plumbing should be submitted to, and approved, by the Board, before permits are granted.

It appears necessary that truth must be told and retold, until it would seem a waste of words, to try to enforce, what might almost be called axioms in sanitary science; but the public seem slow to learn and adopt anything new, no matter

how well established the facts may be in support of it, provided, cost is an element in the consideration of the question.

If landlords were held responsible for all damages which occur from unhealthy sanitary conditions through defective sewerage or plumbing, there is no doubt that more attention would be paid to the subject.

I trust that your Honorable Board will not fail to take into consideration some of the suggestions herein contained, more particularly such as refer to a revision of the ordinances, as I consider it of great importance to the efficient working of this department.

Most respectfully submitted,

GEO. ANDERSON.

Sewer Inspector.

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EACH MONTH FOR THE YEAR ENDING DEC

ILLGITIMATE.					MOTHER.					
mother.	Foreign Mother.	Native father.	Foreign father.	Not stated	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.
					19	128	112	94	65	23
					13	93	142	108	62	29
					15	117	96	99	58	24
	2	1	1		22	90	111	72	82	20
1	1			2	20	94	99	97	70	20
2				2	22	94	114	85	49	16
1				1	23	118	122	102	60	26
1	1		1	1	20	131	131	85	57	21
1	1			2	14	129	112	106	52	15
					11	111	132	84	60	1
					21	108	116	107	65	1
	1			1	18	109	114	79	62	1
6	6	1	2	9	218	1,331	1,401	1,118	842	22

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LOCAL OBSERVATIONS. (Per cent.)	WIND.							AMOUNT OF RAIN OR MELTED SNOW. (Inches and hundredths.)	NUMBER OF DAYS ON WHICH RAIN OR SNOW FELL.	NUMBER OF AURORAS.
	Prevailing Direction.	NUMBER OF MILES.					Maximum Velocity during Month.			
		Noon to 6 P. M.	6 P. M. to Midnight	Midnight to 6 A. M.	6 A. M. to Noon.	Total.				
82.3	S. W.	1,611	1,480	1,335	1,499	5,925	31	1.96	22	0
77.8	S. E.	1,822	1,502	1,660	1,932	6,916	34	2.57	20	0
83.5	W.	1,965	1,656	1,699	1,764	7,084	32	2.82	20	0
74.3	W.	1,590	1,108	1,149	1,410	5,257	29	1.75	15	0
68.9	N.	1,750	1,069	1,287	1,502	5,608	38	0.74	14	0
71.8	N. E.	1,748	1,152	1,159	1,641	5,700	36	8.07	14	0
68.1	W.	1,648	1,079	1,126	1,394	5,247	28	0.90	10	0
62.8	N.	1,496	961	1,040	1,317	4,816	21	0.17	5	0
69.1	S.	1,604	1,136	1,393	1,561	5,694	30	1.66	12	1
72.8	S.	1,915	1,605	1,674	1,870	7,291	34	5.79	20	0
69.9	S.	2,272	2,237	2,313	2,408	9,230	39	3.64	21	0
76.6	S.	1,977	1,759	1,876	2,067	7,679	36	4.89	20	0
877.9	21,400	16,744	17,711	20,365	76,447	388	34.96	193	1
73.2	S.	1,783.3	1,395.3	1,475.9	1,697.1	6,370.6	32.3	2.91	16.1	.06

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ergeant Signal Corps, U. S. A.



EIGHTH
ANNUAL REPORT
OF THE
BOARD
OF
FIRE COMMISSIONERS
OF THE
CITY OF CLEVELAND, OHIO,
FOR THE
YEAR ENDING DECEMBER 31ST, 1881.

BOARD OF FIRE COMMISSIONERS.

OFFICE, CITY HALL BUILDING, ROOM No. 13.

GEORGE GLOYD,

Residence at No. 314 Perry Street, Citizen Member, Term Expires April, 1883.

T. M. WARNER,

Residence at No. 83 Prospect St., Council Member, Term Expires April, 1883.

JOSEPH SLAGHT,

Residence at 825 Logan Avenue, Citizen Member, Term Expires April, 1883.

F. G. KAUFHOLZ,

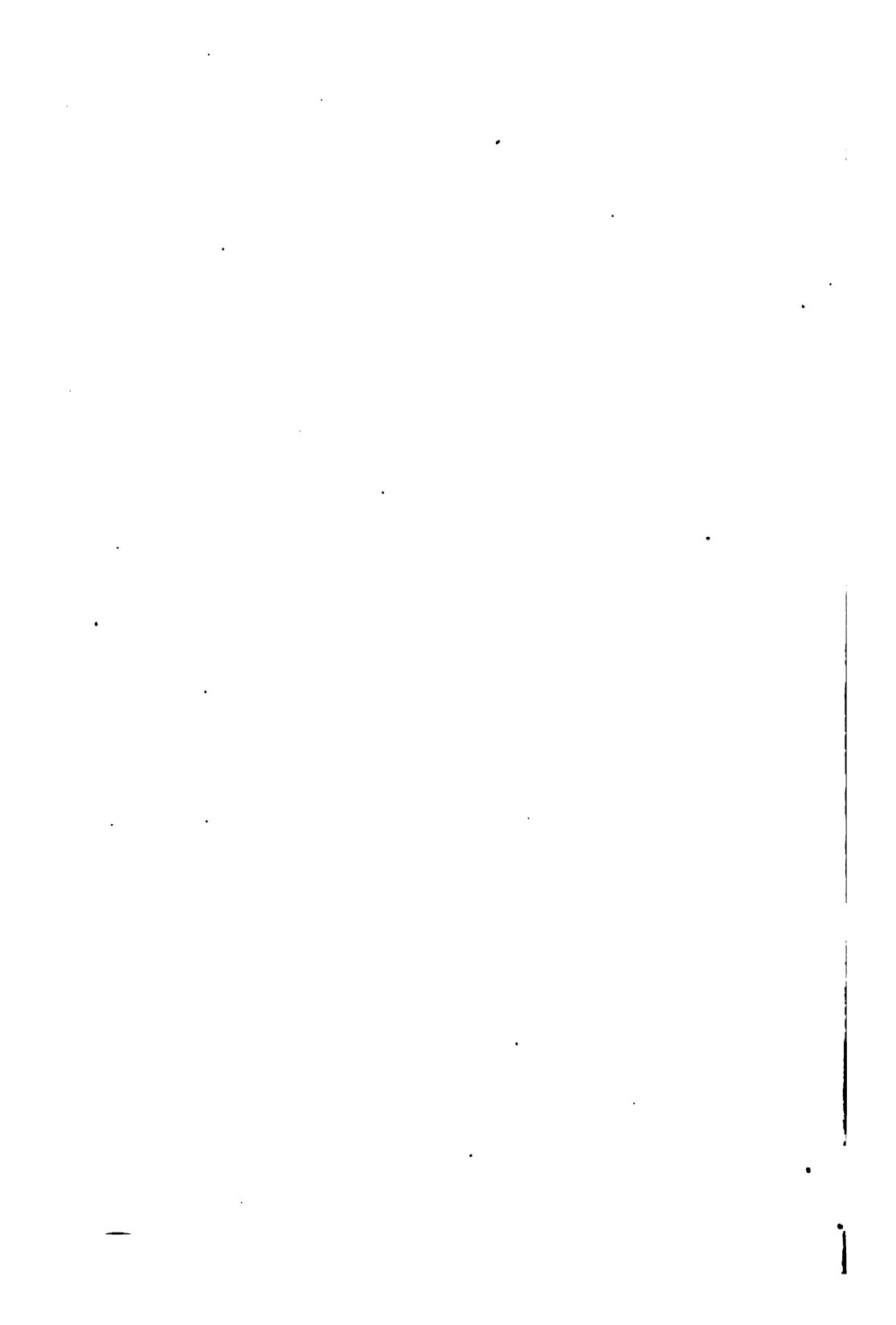
Residence at No. 30 Walton Avenue, Citizen Member, Term Expires April 1884.

NICHOLAS WEIDENKOPF,

Residence at No. 43 Quincy Street, Citizen Member, Term Expires April 1885.

GEORGE GLOYD, President.

A. J. SPENCER, Secretary.



STANDING COMMITTEES.

MEN AND DISCIPLINE,

MESSRS. WEIDENKOPF AND KAUFHOLZ.

ENGINES AND APPARATUS,

MESSRS. KAUFHOLZ AND WARNER.

HORSES AND HORSE FEED,

MESSRS. WEIDENKOPF AND KAUFHOLZ.

BUILDINGS AND REPAIRS,

MESSRS. SLAGHT AND WARNER.

EQUIPMENTS,

MESSRS. WARNER AND SLAGHT.

TELEGRAPH,

MESSRS. SLAGHT AND WEIDENKOPF.

WATER AND SUPPLIES,

MESSRS. KAUFHOLZ AND WEIDENKOPF.

FINANCE,

MESSRS. WARNER, SLAGHT AND GLOYD.

OFFICERS OF THE DEPARTMENT.

JAMES W. DICKINSON,

Chief Engineer,

Office in the City Hall, Room 13.

H. H. REBBECK,

First Assistant Chief Engineer and Superintendent of Telegraph.

Office in the City Hall, Room 15.

JOSEPH SPEDDY,

Second Assistant Chief Engineer.

Office at Engine House No. 7.

A. A. CAVANAH,

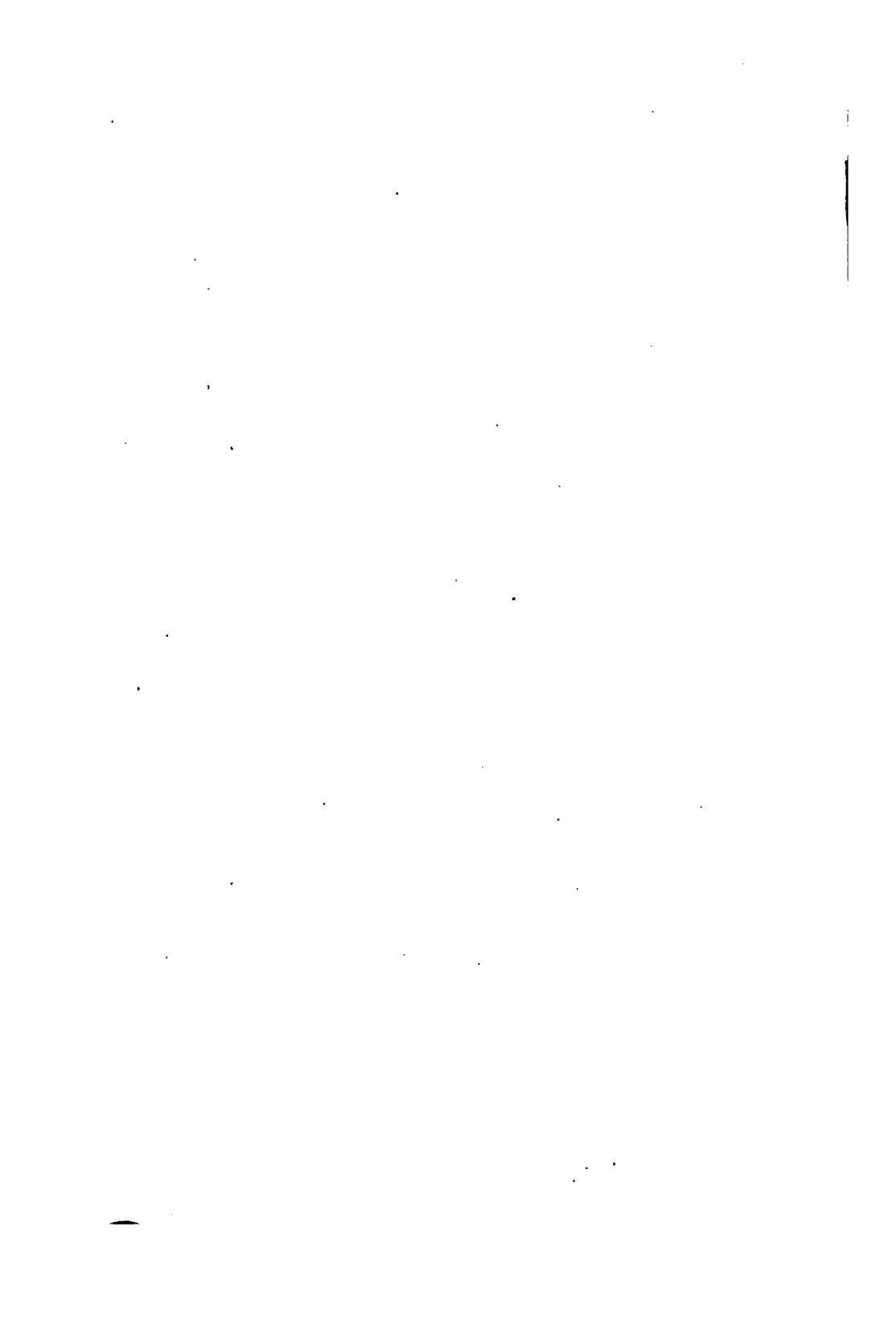
Third Assistant Chief Engineer.

Office at Engine House No. 4.

James Dickinson was appointed Chief December 22d, 1880.

Assistants Rebbeck and Speddy were promoted to their present positions, December 31, 1880.

A. A. Cavanah was promoted to Third Assistant, December 31, 1880.



FIRE COMMISSIONERS' REPORT.

To the Honorable City Council of Cleveland, O.:

GENTLEMEN:—In compliance with a precedent long established the Board of Fire Commissioners most respectfully submits its eighth Annual Report, embracing, as is customary, the financial condition of the department covering the aggregate receipts and disbursements for the year 1881, and such statistics as may be of interest to those who may desire to examine this report.

Members of the Board in 1880 to April, 1881:

GEORGE GLOYD, President.

F. G. KAUFHOLZ, H. L. MELTON, JOSEPH SLAGHT and T. M. WARNER.

Members of the Board from April, 1881:

GEORGE LOYD, President.

F. G. KAUFHOLZ, JOSEPH SLAGHT, T. M. WARNER, and NICHOLAS WEIDENKOPF.

Mr. Melton's time of office having terminated in April, the Board very cordially extended to him their thanks for the able and efficient manner in which he had performed his duties as a Commissioner during his term of office.

What has been said concerning the efficiency of the officers and men can be repeated.

The Cleveland Fire Department is excelled by none in the world.

FIRE DEPARTMENT FORCE AND SALARIES PER YEAR.

	SALARIES per Annum.
James W. Dickinson, Chief	\$ 2,200 00
H. H. Rebbeck, First Assistant and Superintendent of Telegraph.	1,700 00
Joseph Speddy, Second Assistant	1,600 00
A. A. Cavanah Third Assistant	1,575 00
A. J. Spencer, Secretary	1,200 00
Thirteen Engineers, each	1,008 00
Four Captains, each	1,008 00
Thirteen Stokers, each	781 20
Thirteen Leading Hosemen, each	781 20
Four Tillermen, each	781 20
One Veterinary Surgeon	840 00
Two Telegraph Operators, each	840 00
Two Supply Drivers, each	756 00
One Harness Maker	756 00
One Line Repairer	756 00
Eighty-three Firemen each	756 00

The above schedule of salaries was fixed by the Board and approved by the Council for one year, commencing July 1, 1881, and ending July 1, 1882.

The salaries were raised five per cent. from the previous year.

There are one hundred and forty-two men on the Fire Department force.

Wm. A. Culbertson died February 17, 1881.

No accidents causing death have occurred during the year.

January 14th, while Engine Co. No. 7 was responding to an alarm, the hose carriage, in turning the corner of Woodland avenue and Forest street, capsized. Maurice Price, the driver, and Frank Dewey, a fireman, were severely injured, so much

so that at one time it was considered doubtful about the recovery of Maurice Price, as he was seriously injured in his back.

Several slight accidents have occurred.

APPARATUS.

The apparatus of the department consists of fifteen steamers, of which five are first-sized rotaries of the Silsby manufacture; four of the second-sized rotaries of the Silsby manufacture; two of the third-sized rotaries of the Silsby manufacture; two of the second sized piston of the Amoskeag pattern; two of the third-sized piston, manufactured by C. Ahrens & Co.; four hook and ladder trucks, provided with fire extinguishers, ladders, buckets, etc.; four four-wheeled hose carriages; eighteen two-wheeled hose carts; eleven heaters; one aerial ladder; one delivery wagon; three heavy open buggies; three fuel wagons; one telegraph wagon, and six exercise wagons.

A chemical engine was left on trial in 1873, and as the owner has never shown up and his whereabouts unknown the Board contemplate selling said engine, the proceeds to satisfy claims upon it.

HORSES.

There were seventy-one horses in the department at the close of the year, two of which were reported sick.

C. S. Beverlin was appointed to the position of Veterinary Surgeon in July, and he has been very successful in his treatment of sick horses.

During the year fourteen horses were purchased at an expense of \$2,555, and twelve horses were condemned and sold for \$1,095.

HOSE.

No. of Feet.	Kind.	Name of Manufacturer.
1,000	Rubber... ..	B. F. Goodrich & Co., Akron, Ohio.
12,450	"	Cleveland Rubber Co., Cleveland, Ohio.
2,050	" ...	Gutta Percha and Rubber Manufacturing Co., New York.
100	Linen. ...	Gutta Percha and Rubber Manufacturing Co., New York.
50	Cotton.	Blake Hose Co., Boston, Mass.
300	Rubber.....	Whitehead Brothers, Trenton, N. J.
1,000	Cotton	Warwick Manufacturing Co., New York.
16,950	Total number of feet of Hose in the Department.	

Four thousand feet of hose were purchased during the year, the contracts being awarded to the Cleveland Rubber Co. for three thousand feet of rubber hose at 82 cents, without couplings, and to Fabric Hose Co., at Warwick, N. Y., one thousand feet of cotton hose at 90 cents, with couplings. At the different fires during the year six thousand feet were bursted, most of which have been replaced in accordance with contracts.

HOSE CONTRACTS SINCE 1869.

Name of Manufacturer.	Kind.	When Purchased.	No. Feet.	Price	Amount.
Bickford, Curtiss & Deming . . .	Leather.	Sept., 1869	5,000	1 60	\$8,000 00
B. F. Goodrich & Co., Akron, O..	Rubber.	May, 1872	3,000	1 30	3,900 00
New England Manufact'g Co.	Linen.	Nov., 1874	1,000	1 14½	1,145 00
Cleveland Rubber Co.	Rubber.	Dec., 1874	1,000	98	980 00
Buckeye Rubber Co.	"	Mar., 1875	2,500	1 00	2,500 00
Buckeye Rubber Co.	"	June, 1875	2,100	1 00	2,100 00
Whitehead Bros., Trenton, N. J.	"	Dec., 1875	2,000	1 18	2,360 00
Whitehead Bros., Trenton, N. J.	"	Nov., 1875	1,750	1 18	2,065 00
Gutta Percha Co., N. Y.	"	Nov., 1875	1,750	1 25	2,187 50
Eureka Fire Hose Co.	Cotton.	Aug., 1876	500	1 10	550 00
Whitehead Bros., Trenton, N. J.	Rubber.	Aug., 1876	1,000	88	880 00
B. F. Goodrich & Co., Akron, O..	"	Aug., 1876	1,000	98	980 00
Blake Hose Co., Boston, Mass. .	Cotton.	Aug., 1876	500	1 00	500 00
Gutta Percha Co., N. Y.	Rubber.	Jan., 1877	1,000	98	980 00
Cleveland Rubber Co., Ohio . . .	"	Jan., 1877	5,000	95	475 00
Gutta Percha Co., N. Y.	"	Apr., 1877	1,000	98	980 00
Cleveland Rubber Co., Ohio . .	"	Apr., 1877	1,000	95	950 00
Gutta Percha Co., N. Y.	"	May, 1877	1,000	98	980 00
B. F. Goodrich & Co., Akron. . .	"	Aug., 1877	700	98	686 00
Blake Hose Co., Boston, Mass. .	Cotton.	Oct., 1877	500	1 00	500 00
Gutta Percha Hose Co., N. Y. . .	Rubber.	Dec., 1877	1,000	98	980 00
Gutta Percha Hose Co., N. Y. . .	"	Jan., 1878	500	98	490 00
Cleveland Rubber Co., Ohio. . .	"	Apr., 1878	1,000	95	950 00
Blake Hose Co., Boston, Mass. .	Cotton.	May, 1878	500	87½	437 50
Gutta Percha Co., N. Y.	"	May, 1878	500	90	450 00
Gutta Percha Co., N. Y.	Linen.	May, 1878	1,000	60	600 00
Cleveland Rubber Co.	Rubber.	Dec., 1878	3,000	95	2,850 00
Cleveland Rubber Co.	"	June, 1879	2,000	95	1,900 00
Cleveland Rubber Co.	"	Nov., 1879	3,000	95	2,850 00
Cleveland Rubber Co.	"	May, 1880	3,000	95	2,850 00
Akron Rubber Co.	"	May, 1880	1,000	95	950 00
Cleveland Rubber Co.	"	July, 1881	3,000	82	2,460 00
Fabric Hose Co., Warwick, N. Y.	Cotton.	July, 1881	1,000	90	900 00

As soon as practicable the several houses will probably be changed so as to take proper care of fabric hose, as this kind of hose is beginning to be used more than rubber or leather. With proper care it is found to be more durable than other.

CHIEF'S ANNUAL REPORT, 1881.

COMPANIES.	No of Fires Attended.	No of Miles Run.	No. of Hours Worked.	No. of Feet Hose used at Fires.
Engine Company No. 1	179	259½	64½	18,880
" " " 2.	187	222¾	72	28,300
" " " 3.	187	66	56	22,950
" " " 4.	159	280	41½	22,300
" " " 5.	46	110½	18½	9,450
" " " 6.	125	190½	80½	26,050
" " " 7.	85	237¼	32	18,000
" " " 8.	171	175¼	60¼	18,850
" " " 9.	41	120½	12½	9,250
" " " 10.	14	49	8¾	7,500
" " " 11.	28	82½	26¼	24,600
" " " 12.	44	114¼	36	14,600
" " " 13.	44	147	11¼	6,450
Hook and Ladder Company No 1..	229	391¼	118	.....
" " " " 2..	213	420	136	.....
" " " " 3..	100	343¼	53¼	.....
" " " " 4..	82	133¾	29	.....
Supply Company No. 1	256	.....	.....	.....
" " " 2.	324	.....	.....	.....
" " " 3.	197	.....	.....	.....
" " " 4.	217	.....	.....	.....
Total	479	3,622¾	856	226,060

The above statement shows 172 more fires attended in 1881 than in 1880, and shows the greatest number of fires since 1865.

STATEMENT OF ALARMS AND CAUSES IN 1881.

CAUSE.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Carelessness	16	17	8	8	10	3	9	21	9	4	8	12	125
Defective flues	6	5	3	4	2	1		2	3	5		5	36
Kerosene lamps	1	1	1				2		1		2	3	11
Leaky Stills	1				1			1				1	4
Overheating	1		2	2		2		5					12
Explosions	1				1					1	2		5
Drying Wood in oven	1												1
Chimneys burning	2	2		4			1		2	1	1	3	16
Unknown	2	4	2		5	3	10	4	6	9	5		65
False alarms	1								1	1			3
Carelessness with gasoline stoves	2		1	1	2	7	3	8	3		1		23
Carelessness in setting grates	2												2
Sparks	2	4	14	18	7	2	12	12	3	2	7		83
Ignition of gas	1		1	2					1	1	2		8
Incendiary	2	2			1	3	1		2		5		16
Fire falling out of stoves	1	1	1	1									4
Fire falling out of grate			1										4
Oil burning on the river			1										1
Grease boiling over			1										1
Blowing of castings			1										1
Carelessness with alcohol			1										1
Locomotive sparks			1	1				2	1				5
Combustion			1	3	1	2	2			2			11
Children playing with fire			1	2		2	3	4	1				13
Children playing with matches					2	1							3
Careless deposit of ashes					1			1		1			3

STATEMENT OF ALARMS AND CAUSES IN 1881.
Concluded.

CAUSE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
Friction						1							1
Bonfire						1							1
Accidental							1		1	1			3
Burning rubbish							4						4
Tramps setting fire to straw								1	2				3
Fire out of the city.....								1					1
Phosphorus.....									1				1
Hot steel.....										2			2
Old fires renewed										2			2
Setting boiler.....											1		1
Stove upset											1		1
Total.....	32	36	27	41	50	24	52	59	51	30	32	45	479

STATEMENT OF LOSSES AND INSURANCE IN 1881.

MONTHS.	Losses.	Insurance.
January	\$ 2,254 43	\$ 12,650 00
February	80,765 35	158,850 00
March	1,897 75	57,750 00
April	6,673 02	41,385 00
May	42,110 02	188,950 00
June	2,958 00	20,600 00
July	33,785 80	104,700 00
August	85,868 34	141,900 00
September	27 788 36	21,754 44
October	35,285 00	42,550 00
November	40,690 53	17,800 00
December	5,324 00	47,710 00
Total	\$365,400 58	\$856,599 44

LOSSES AT FIRES DURING THE YEAR OF \$1,000 AND UPWARDS.

February 1st—St. Mary's Church, on Carroll street.....	\$13,000
February 3d—Morgan & Merriam, on Kingsbury Run.....	17,000
February 4th—Isaac Laisy, 137 Vega avenue.....	8,100
February 10th—G. P. Geib, 76 and 80 Lorain street.....	3,352
February 28th—Austin Moore, 69 Main street	1,370
April 2d—H. C. Rose, 1792 Euclid avenue.....	1,700
April 27th—Wm. Oppman, Columbus and Wiley streets.....	3,706
May 17th—Bohm & Stuhr, 62 Center street.....	1,800
May 23d—Emerson & Caskey, Center street.....	10,000
May 23d—Mowrey & Brothers, Center street.....	7,500
May 23d—Woods, Perry & Co., Center street	7,500
May 23d—Gary Roofing Co., Center street	5,000
May 23d—Potter, Birdsell & Co., Center Street	4,500
Whitney & Raymond, Center street.....	4,000
June 14th—Wm. H. Radcliffe, ship yard.....	1,470
July 21st—Cleveland Nut and Bolt Works	31,000

August 5th—Jacob Laisy & Co., 283 Merwin street	12,500
August 16th—J. B. Hervey, Leonard street	14,441
August 16th—Rogers & Jungs, Leonard street.....	16,500
August 16th—George Gebhart, Leonard street	4,694
August 16th—Lapham & Co., Leonard street.....	2,981
August 28th—Standard Oil Co., Kingsbury Run.....	8,000
August 28th—Fred. Hempy's Plaining Mill.....	23,599
September 7th—H. M. Hempy & Son, 47 and 49 Center street	22,132
September 10th—Standard Oil Co., Kingsbury Run	1,000
September 13th—Sitterly & Doan, 134 Bank street.....	1,300
September 15th—Wm. Orsmittter, Streater avenue.....	1,480
October 14th—Standard Oil Co., Kingsbury Run	8,000
October 20th—Cleveland Spring Works, Winslow street.....	26,500
November 12th—Woodhill & O'Gorman, 209 Ontario street.....	2,000
November 12th—Parker & Ryan, 209 Ontario street.....	4,000
November 12th—R. H. Roberts, 209 Ontario street... ..	3,200
November 27th—Standard Oil Excelsior Wax Works, Walworth Run....	30,000
December 11th—C. H. Burton, cor. Center and Main streets.....	3,407

The above statement is a record of losses from \$1,000 and more. Taking into consideration the large number of wooden buildings which are scattered over such an extent of territory, the unprecedented drouth in August and September, and the four hundred and seventy nine alarms given, again plainly demonstrates the fact that the Cleveland Fire Department is as well managed as any Department in the world.

Chief Dickinson has confirmed the opinion in the minds of our citizens, which was previous to his appointment established, that his judgment and plans put into execution at fires cannot be excelled.

RECEIPTS AND DISBURSEMENTS.

MONTHS.	DISBURSEMENTS.		RECEIPTS.
	Pay-Roll.	Claims.	
Balance on hand January 1, 1881.....	.		\$ 2,723 88
January.....	\$ 9,295 14		1,199 00
February.....	9,370 93	\$ 1,702 53	129 50
March.....	9,270 58	1,861 00	85,086 88
April.....	9,435 58	1,987 87	85 00
May.....	9,324 30	8,139 68	304 85
June.....	9,312 87	2,142 41	150 00
July.....	9,309 81	1,440 13	17 00
August.....	9,811 30	2,171 76	150 00
September.....	9,788 21	8,512 58	40 00
October.....	9,897 65	1,142 87	59,307 48
November.....	9,842 50	5,311 31	343 94
December.....	9,762 74	3,846 72	23 70
Total Pay-Roll.....	\$114,421 61	6,032 96	605 50
Total Claims.....		\$ 34,291 62	6 88
Disbursements.....		148,713 43	10 00
Balance.....		1,494 68	75 00
		\$150,208 11	\$150,208 11

FIRE DEPARTMENT FUND.

RESOURCES.		DISBURSEMENTS.	
Balance Jan'y 1st, 1881	\$ 2,723 88	Disbursed	\$148,713 48
Tax Collections	144,344 36	Balance Dec 31st, 1881...	1,494 68
Deposits	3,189 87	.....	.....
	\$150,208 11		\$150,208 10

DISBURSEMENTS SINCE 1874.

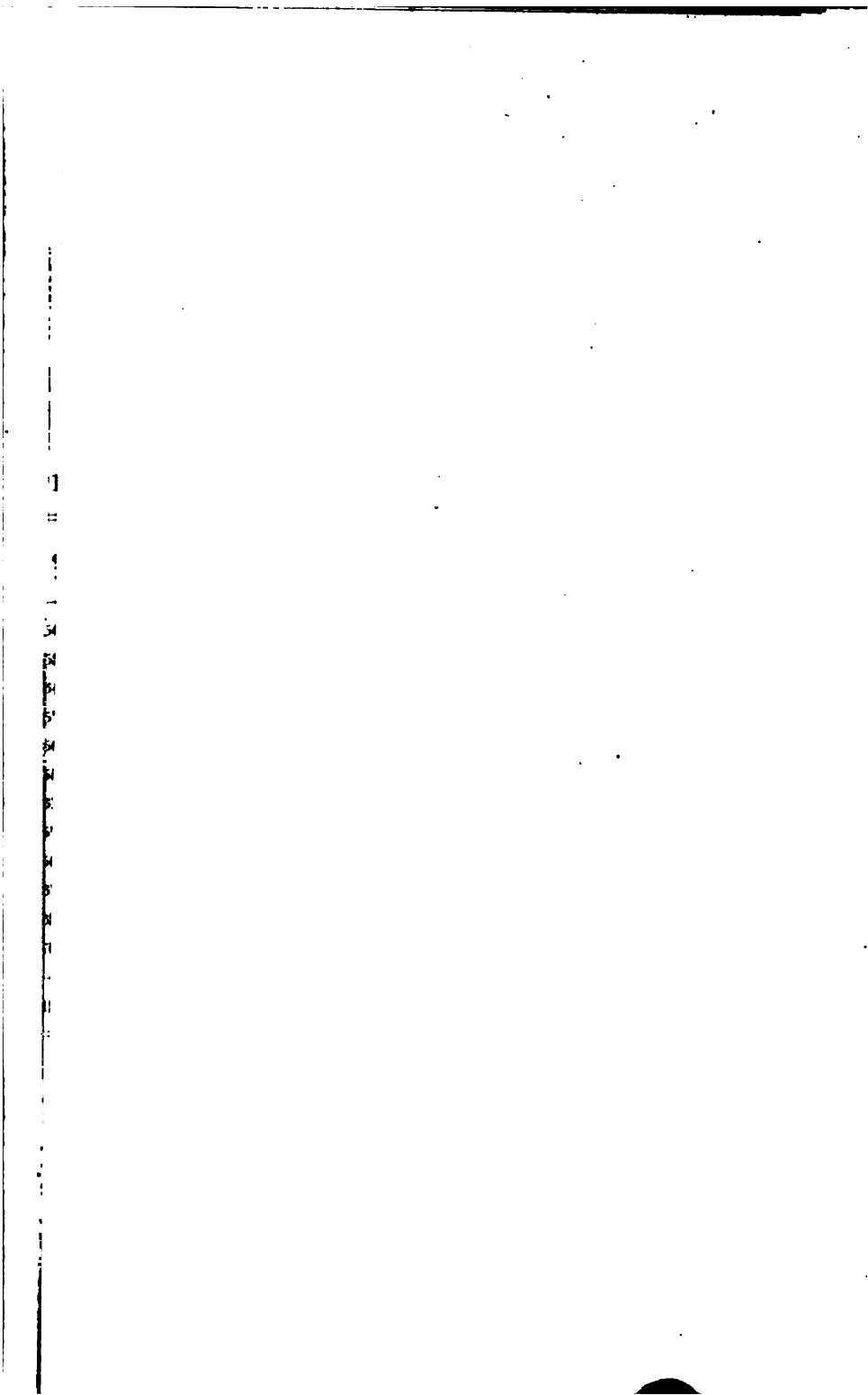
	No. of Min. Men	No. of Firemen.	No. of Houses.	Disburse- ments.
1874	2	116	10	\$ 161,991 64
1875	54	98	11	170,976 59
1876		143	11	149,894 72
1877		143	13	156,019 12
1878		143	13	159,970 44
1879		142	13	151,732 99
1880		142	13	148,426 60
1881		142	13	148,713 48
Total				\$1,247,785 53

The ordinary expenses for the department were \$145,469.75 a little more than the taxes collected. An estimate of \$216,650 was made expecting to receive a sufficient sum to enable the Board to establish a company to manage a chemical engine which is very much needed in the business portion of this city.

In the Report of 1880 it was strongly recommended that a house be built in rear of the City Hall, and a company of five or six men established to manage a chemical engine. The necessity of better protection in the business portion of the city is apparent from the fact that scarcely any fire apparatus has been added since the organization of the Fire Department.

ORDERED PAID IN 1881.

A- s.	Office Expenses.	Contingent Expenses.	Reservoirs and Repairs.	Fire Alarm Telegraph.		Fire Department Fund.	
				Dr.	Cr.	Dr.	Cr.
							\$ 2,723 88
64				\$ 2 35		\$ 10,997 67	1,199 00
01		\$ 8 25	\$ 88 50	258 11		11,231 93	129 50
64	\$ 41 00	27 30	128 11	318 90		11,258 45	85,006 88
64	75 00	125 52				12,575 28	85 00
61		12 00		345 58		11,486 71	304 85
81	10 01	10 90		126 53		10,753 00	357 00
90		27 25	21 84	72 15		11,481 57	59,307 48
46		120 34	129 50	57 99		13,323 88	343 94
30	11 75	81 13		108 74		10,995 68	23 70
24	30 42	45 28				15,144 36	605 50
74	12 33	36 62	18 67	708 25		13,670 95	6 38
26	200 51	2 00		217 89		15,813 97	10 00
25	\$381 02	\$496 59	\$381 62	\$2,100 49		\$148,713 43	\$75 00
						\$1,494 68	
						\$150,208 11	\$150,208 11



ALPHABETIC LIST OF FIRE DEPARTMENT FORCE.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Andrew, John	Fireman	Engine Co. 4 ..	May, 1873	United States ..	Sailor.
Anthony, Charles,	"	" " 4 ..	August, 1871...	" ..	Sailor.
Anthony, Frank	"	" " 4 ..	July, 1875	" ..	Trunk Maker.
Ackley, John	"	" " 10 ..	January, 1873 ..	" ..	Laborer.
Aukens, John F.	"	" " 1 ..	May, 1878	" ..	Painter.
Auxer, Perry H.	Harness maker ..	& Store Keeper ..	May, 1877	" ..	Harness Maker.
Burgess, William	Fireman	Supply Driver ..	January, 1881 ..	" ..	Plumber.
Benton, Ira C.	Engincer	Engine Co. 5 ..	July, 1875.. ...	" ..	Clerk
Bruehler, George	Fireman	" " 7 ..	December, 1868 ..	German	Teamster.
Burger, Albert H.	"	" " 8 ..	June, 1873	" ..	Book-binder.
Boulton, Henry P.	"	" " 9 ..	January, 1879 ..	United States ..	Carpenter.
Brott, Andrew	"	" " 10 ..	January, 1873 ..	" ..	Carpenter.
Bruheler, Jacob	"	" " 12 ..	September, 1879 ..	German ..	Fireman.
Bender, Conrad	"	H & L. 3	March, 1875	" ..	Shoemaker.
Broderick, Thomas	"	H. & L. 1	July,	United States ..	Butcher.
Belz, John P.	Captain	H. & L. 3	December, 1871 ..	" ..	Harness Maker.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Bennett, Geo. E	Operator	Telegraph	April, 1872	United State.	Ornithologist.
Barlow, John D	"	"	December, 1872	"	Farmer.
Beverlin, C. S	Supply	Vet. Surgeon	April, 1880	"	Vet. Surgeon.
Crane, Wm. B	Fireman	Engine Co. 3	January, 1879	"	Salesman.
Clayton, Wm. H	Engineer	" 3	December, 1870	"	Engineer.
Conklin, S. B	Stoker	" 8	January, 1879	"	Sail-maker.
Clancy, Nicholas	Fireman	" 9	May, 1876	"	Blacksmith.
Cunningham, James	"	" 12	October, 1873	"	Sailor.
Caddy, Wm. H	L. hoseman	" 13	May, 1877	"	Oil Treator.
Conway, Michael	Fireman	" 4	April, 1881	"	"
Cunanan, John	"	" 2	May, 1881	"	"
Delaney, Henry J	L. hoseman	" 6	May, 1877	"	Gas-fitter.
Dewey, Frank	Fireman	" 7	June, 1877	"	Painter.
Davis, Frank E	"	" 9	February, 1878	"	Paver.
Davis George	L. hoseman	" 10	September, 1878	"	Painter.
Dehaney, William	Fireman	" 11	August, 1878	"	Painter.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Dougherty, Charles	Tillerman.	H. & L. 1	November, 1873.	United States	Sailor.
Eichhorn, Charles	Fireman	Engine Co. 5.	December, 1868.	German.	Plasterer.
Ensley, Thomas	"	" 8	October, 1877.	United States	Spinner.
Eldridge, John	"	" 13	December, 1880.	"	Painter.
Evans, Wm. C.	"	" 13	January, 1882.	"	"
Fairchilds, Nelson	"	" 13	January, 1882.	"	Paper Hanger.
Farrand, Fred P.	L. Hoseman.	" 5	May, 1876	"	Inspector.
Fenney, William	Stoker.	" 11	August, 1870	"	Pilot.
Fogg, Charles	Tillerman	H. & L. 2	April, 1872.	"	Morocco Dresser.
Gorman, Richard	Fireman.	Engine Co. 2	November, 1870.	"	Nut and Bolt Maker.
Garrard, Chas T.	"	H. & L. 1	June, 1873.	"	Farmer.
Gillson, John T.	Captain.	H. & L. 2	September, 1865.	English.	Carriage Painter.
Grady, John.	Fireman	Engine Co 1.	August, 1881	"	"
Hartzell, Oliver.	Engineer.	" 6	September, 1867.	United States	Caulker
Herr, William	Fireman.	" 9	July, 1872.	German	Cigar Maker.
Hughes, Frank	Engineer	" 10	August, 1873 ..	United States	Maoblhist.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Harris, Walter.	Fireman	Engine Co. 10	October, 1878	English	Nurseryman.
Harmon, Henry, Sr.	Stoker.	" " 12	October, 1873	German	Machinist.
Harmon, Henry, Jr.	Fireman	" " 12	June, 1879	United States	Gas-fitter.
Hartzell, William	"	" " 12	October, 1872	"	Carpenter.
Hemerich, George	"	H & L. 3	August, 1875	"	Salesman.
Hendershot, Leslie.	"	Engine Co. 2	February, 1881	"	Stone-cutter.
Jones, Rees D.	L. hoseman.	" " 11	May, 1876	Welsh	Rougher.
Jackett, Samuel	Fireman	" " 12	October, 1872	United States	Teamster
Killip, George.	L. hoseman	" " 1	October, 1874	"	Shoemaker.
Kurtz, Henry H.	Stoker.	" " 5	December, 1876	"	Machinist.
Koritz, William.	Engineer.	" " 7	July, 1878	German	Harness Maker.
Koehl, Jacob.	Fireman	" " 7	December, 1868	"	Laborer.
Knapp, Chas. B.	"	" " 7	May, 1876	English	Laborer.
Kirk, Oscar W.	"	" " 8	January, 1879	United States	Finisher.
Knowles, Warren B.	"	" " 13	January, 1872	"	Harness Maker.
Kyle, Charles.	"	" " 1	July, 1880	English	Painter.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
King, William A.....	Fireman	" " 3....	April 1881.....	United States..	
Long, William.....	Engineer..	Engine Co. 4...	April, 1883.....	Irish	Shingle Sawyer.
Lewis, John D.....	Fireman	" " 11....	May, 1876.....	Welsh	Puddler.
Larue, Nathan.....	"	H. & L. 3.....	February, 1875..	United States..	Carpenter.
Mathews, William.....	"	Engine Co. 1....	May, 1876.....	" "	Sailor.
Murphy, C. D.....	Engineer..	" " 2	January, 1873..	Irish	Boiler Maker.
Messer, George.....	Fireman	" " 13....	May, 1877.....	United States..	Carpenter.
Moffatt, John	"	" " 6	December, 1878.	" "	Pilot
Mears, Frank I.,.....	Engineer..	" " 9	September, 1870.	" "	Fireman.
Moxon, John.....	Fireman	H. & L. 1.....	October, 1873...	" "	Spring-fitter.
Mulcahy, Michael ..	"	" 2	May, 1875	Irish.....	Carpenter.
Marsh, John	"	" 4	May, 1879	English	Painter.
Miller Frank	"	Engine Co. 3....	April, 1881.....	.....
Mershon, Henry.....	"	" " 1.....	July, 1881.....	.....
McWilliams, John ...	L. hoseman....	" " 2	September, 1870	United States..	Painter.
McMahon, Peter	Fireman	" " 6	April, 1873.	" "	Harness Maker.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
McMahon, W. W.	Engineer.	Engine Co. 8	September, 1883	United States	Pail Turner.
McNanie, John	Fireman	H. & L. 3	January, 1879	"	Heater.
McGlool, John	"	" 1	May, 1876	"	Butcher.
McNertney, John	"	Engine Co. 1	April, 1881	"	"
MacFeeters	"	" 11	May, 1876	"	Moulder.
Ney, William H.	Stoker.	" 13	June, 1873	"	Roofer.
Neabit, John	Fireman	" 11	September, 1881	"	"
Orland, Henry	Stoker.	" 10	May, 1889	English	Baker.
Ostrander, Edgar W.	Fireman	" 10	December, 1876	United States	Druggist.
Price, Maurice	"	" 7	August, 1872	English	Butcher.
Price, James	"	" 2	April, 1881	United States	"
Pritchard, Geo.	"	" 3	July, 1881	"	"
Quarrie, James	"	H. & L. 1	May, 1876	Manx	Butcher.
Quay, Hugh	"	Engine Co. 1	April, 1881	"	"
Rowe, A. H.	Stoker.	" 2	January, 1879	United States	Upholsterer.
Riddle, Chas.	"	" 3	October, 1874	"	Railroader.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Reynolds, Wm.	Fireman	Engine Co. 3	January, 1871	English	Cooper.
Relf, Erwin	"	" 5	January, 1880	United States	Machinist.
Rees, Jacob W.	"	" 9	July, 1873	"	Wood Carver.
Rothgery, Joseph	Operator	Telegraph	October, 1871	"	Porter.
Robertson, Wm	Fireman	Engine Co. 3	October, 1881	"	"
Speddy, George.	Engineer	Engine Co. 13	June, 1878	"	Fireman.
Sewer, Edward	Fireman	" 4	May, 1899	German	Baggage Master.
Saunders, Nelson R.	"	" 4	January, 1878	United States	Surveyor.
Schwarzs, John	"	" 6	March, 1873	"	Teamster.
Schwind, Charles	Stoker.	" 7	April, 1870	"	Cooper.
Sharp, Joseph	L. hoseman	" 7	July, 1873	English	Laborer.
Schuchardt, Otto.	Fireman	" 8	November, 1871	German	Blacksmith.
Scovell, Andrew J.	Stoker.	" 9	July, 1872	United States	Porter.
Smith, Frank S.	Fireman	" 9	January, 1873	"	Leather Finisher.
Stephens, Sanford.	"	H. & L. 2	August, 1875	"	Caulker.
Stevens, Albert.	Captain	" 4	May, 1870	English	Printer.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Stockey, Frederick.....	Tillerman.....	H. & L. 3.....	May, 1878.....	Austria.....	Cigar Maker.
Steel, John.....	".....	" 4.....	December, 1876.....	United States.....	Engineer.
Sumner, Charles.....	Fireman.....	" 4.....	May, 1878.....	" ".....	Brick Layer.
Sewell, John.....	".....	" 7.....	April, 1881.....	" ".....	".....
Shaw, E. A.....	".....	" 6.....	May, 1881.....	" ".....	Sailor.
Tucker, Henry.....	".....	Engine Co. 5.....	August, 1872.....	" ".....	Clerk.
Thomas, Joseph H.....	".....	" 6.....	January, 1880.....	Hollander.....	Engineer.
Van DeVelde, John.....	Engineer.....	" 1.....	January, 1880.....	".....	Engineer.
Van DeVelde, Henry.....	".....	" 12.....	October, 1873.....	".....	Machinist.
Van DeVelde, James.....	L. hoseman.....	" 12.....	October, 1885.....	".....	Fireman.
Varner, Charles.....	".....	" 4.....	February, 1872.....	United States.....	Sillor.
Waters, Thomas.....	Stoker.....	" 1.....	December, 1870.....	" ".....	Sailor.
Werner, Chas.....	L. hoseman.....	" 1.....	September, 1873.....	" ".....	Trunk Maker.
Williams, Henry.....	Fireman.....	" 2.....	November, 1875.....	" ".....	Harness Maker.
Witt, William.....	".....	" 8.....	June, 1873.....	" ".....	Sewing Machine Maker.
Wright, Sheldon.....	Stoker.....	" 4.....	May, 1889.....	" ".....	Salesman.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—*Concluded.*

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Weber, Frank	Fireman	Engine Co. 5	May, 1878	German	Machinist.
Wolf, Charles	"	" " 5	October, 1870	"	Blacksmith.
Weishelmer, William	L. hoseman	" " 8	July, 1873	"	Lithographer.
Walters, Philip	Engineer	" " 11	November, 1866	United States	Boiler Maker.
Wallace, George	Captain	H. & L. 1	June, 1866	"	Brakeman.
Ward, David	Fireman	" 1	October, 1873	English	Teamster.
White, Carlos E.	"	" 2	August, 1873	United States	Clerk.
Waterbury, John	"	" 4	May, 1876	"	Painter.
Waterbury, Lyman	"	Engine Co. 13	June, 1879	"	Plumber.
Wameer, Conrad	"	" " 8	July, 1881	"	"
Yocum, Elmer S.	Stoker,	" " 6	June, 1872	"	Brick Layer.

NUMBER OF MEN WHO HAVE RESIGNED DURING THE YEAR.

Names.	Position.	From What Co.	Time.
Edwin Hardy.....	Fireman.....	Engine Co. 1	January 5, 1881.
Patrick Finucan.....	".....	" 1..	Febr'y 17, 1881.
W. F. Jones.....	Stoker.....	" 2..	March 16, 1881.
B. L. Miles.....	Fireman.....	" 3..	" 16, 1881.
Wm. H. Capener.....	".....	H. and L. 3..	April 6, 1881.
Charles Hebbig.....	".....	Engine Co. 3..	" 30, 1881.
Charles Stearns.....	".....	" 6..	" 30, 1881.
Charles E. Swartzwood.....	".....	" 3..	" 30, 1881.
Jacob W. Rees.....	".....	" 9..	June 3, 1881.
Nelson Fairchild.....	".....	" 1..	May 6, 1881.
William H. Newton.....	".....	" 4..	July 1, 1881.
Thomas Porter.....	".....	" 1..	" 8, 1881.
Morris Hawley.....	".....	H. and L. 1..	August 5, 1881.
Wm. H. Kneal.....	".....	Engine Co. 11..	Sept'r 1, 1881.
Charles Werner.....	".....	" 1..	" 30, 1881.
Walter Chapman.....	".....	H. and L. 2..	Nov'r 18, 1881.
William R. Howe.....	".....	Engine Co. 13..	Dec'r 30, 1881.
Samuel R. Lemmon.....	".....	" 10..	Dec'r 16, 1881.

MEN WHO HAVE BEEN DISCHARGED DURING THE YEAR.

Names.	Position.	From What Co.	Time.
Joseph W. Baker.....	Engineer.....	Engine Co. 13..	March 16, 1881.
John F. Aukens.....	Fireman.....	" 13..	" 16, 1881.
Philip McCracken.....	".....	" 13..	" 16, 1881.
Henry Hart.....	".....	" 10..	Dec'r 2, 1881.

LOCATION OF RESERVOIRS,

AS REPORTED BY H. H. REBBECK, FIRST ASSISTANT CHIEF.

IN THE FIRST DISTRICT—ENGINE COMPANIES NOS. 1, 2; 3 AND 5.

1 at the corner of Erie and St. Clair streets, connected.

1	"	"	Bond and Superior	"
1	"	"	Lake and Wood,	"
1	"	"	Ontario and St. Clair,	"
1	"	"	Bank and Superior,	"
1	"	"	St. Clair and Water.	"
1	"	"	Spring and Superior.	"
1	"	"	Public Square and Superior.	"
1	"	"	Ontario and Prospect,	"

1 on Ohio street, between Broadway and Woodland, connected.

1 at the corner of Huntington and Prospect, connected.

1	"	"	Brownell and Euclid,	"
1	"	"	Huron and Prospect,	"
1	"	"	Euclid and Erie,	"
1	"	"	Broadway and Liberal.	"
1	"	"	Cross and Hill,	"
1	"	"	Garden and Harmon,	"
1	"	"	Orange and Perry,	"
1	"	"	Sterling and Superior.	"
1	"	"	Case and Superior,	"
1	"	"	Belden and Superior,	"
1	"	"	Payne and Wasson,	"
1	"	"	Madison and St. Clair, not connected.	

LOCATION OF RESERVOIRS.

AS REPORTED BY JOSEPH SPEDDY, SECOND ASSIST. CHIEF.

IN THE SECOND DISTRICT—ENGINE COMPANIES NOS. 7, 9, 10, 11 AND 13.

1 at the corner of Jackson street and Woodland avenue, connected.

1 " " Croton and Humbolt streets, connected.

1 " " Belmont and Croton, "

1 " " Burwell and Forest, "

1 " " Mayflower and Orange, "

1 " " Laurel and Scovill, "

1 " " Cedar and Cleve, "

1 " " Floyd and Jackson, "

1 " " Brooker and Garden, not connected

1 " " Willson and Woodland, connected.

1 " " Wilcot and Woodland, "

1 " " Ocean and Woodland, "

1 " " Scovill and Willson, "

1 " " Kennard and Scovill, "

1 " " Carr and Woodland, "

1 " " Cypress and First streets, not connected.

1 " " Slater and Scovill, " "

1 " " Baden and Quincy, " "

1 " " Grand and Herald, " "

1 " " Madison and Quincy, " "

1 " " Evergreen and Waterman, " "

1 " " Cedar and Stark, " "

1 " " Doan and Wilber, connected.

1 on Doan street, north of Euclid avenue, not connected.

1 at the corner of Euclid and Streater, " "

1 " " Euclid and Harkness, " "

1 " " Bell and Euclid, " "

1 " " Bolton and Euclid, " "

1 " " Bolton and Cedar, " "

1 " " Custead and Euclid, connected.

1 " " Euclid and Madison, "

1 " " Euclid and Giddings, "

1 " " Euclid and Republic, not connected.

- 1 north of Miles and Park avenue, not connected.
- 1 at the corner of Atwater and Miles, " "
- 1 on Tioga street, not connected.
- 1 on Ebben street, not connected.
- 1 at the corner of Broadway and Jones, connected.
- 1 " " Classen and Reed, not connected.
- 1 " " Cornell and Fullerton, not connected.
- 1 " " Axtell and Marble, " "
- 1 " " Way street, near Woodland Hills, not connected
- 1 " " Broadway and Harvard, not connected.
- 1 " " Cannon and Sawyer, " "
- 1 " " Harvard and Woodland Hills, not connected.
- 1 " " Haddock and Patton, not connected.
- 1 " " Forest and Warren, connected.
- 1 " " Broadway and Davies, connected.
- 1 " " Broadway and Gallup, "
- 1 " " Broadway and Petrie, not connected.
- 1 " " Trumbull and Solon " "
- 1 on Hamm street, not connected.
- Total in the district, 52; 22 connected, 30 not connected.

LOCATION OF RESERVOIRS,

AS REPORTED BY A. A. CAVANAH, THIRD ASSISTANT CHIEF.

IN THE THIRD DISTRICT.

1 at the corner of Detroit and Pearl streets, connected.

1	"	"	Detroit and State,	"
1	"	"	Detroit and Taylor,	"
1	"	"	Clinton and State,	"
1	"	"	Clinton and Duane,	"
1	"	"	Clinton and Kentucky,	"
1	"	"	Liberty and Franklin,	"
1	"	"	Hanover and Washington,	"
1	"	"	Lorain and Pearl,	"
1	"	"	Bridge and York,	"
1	"	"	Bridge and Fulton,	"
1	"	"	Fulton and Lorain,	"
1	"	"	Benton and Cook,	"
1	"	"	Chatham and Penn,	"
1	"	"	Chatham and York,	"
1	"	"	Pearl and Willey,	"
1	"	"	Abbey and Columbus,	"
1	"	"	Jersey and Lorain,	"
1	at the Brock street terminus,			"
1	at the corner of Pearl and Seymour,			"
1	"	"	Hitchcock and Wade,	"
1	"	"	Clark and Pleasant,	"
1	"	"	Jennings and Starkweather,	"
1	on Jennings avenue, south of Crown,			"
1	at the corner of Merchants and Willey,			"
1	"	"	Bridge and Courtland,	"
1	"	"	Bridge and Liberty,	"
1	"	"	Bridge and Harbor,	"
1	"	"	Courtland and Detroit,	"
1	"	"	Stone and Waverly,	"

1	at the corner of	St. Paul and Washington,	not connected.
1	"	" John and Randal,	" "
1	"	" Church and Hanover,	" "
1	"	" Chatham and Mechanic,	" "
1	"	" Bailey and Devine,	" "
1	"	" Green and Horace,	" "
1	"	" Jefferson and Professor,	" "
1	"	" Herschell and Jefferson,	" "
1	"	" Brooklyn and Myers,	" "
1	"	" Harbor and Peach,	" "
1	"	" Pear and Waverly,	" "
1	"	" Gaskell and Herman,	" "
1	"	" Chestnut Ridge and Lorain,	not connected.
1	"	" Swiss and Train,	" "
1	"	" Junction and Ravine,	" "
1	"	" Gordon and Detroit,	" "
1	"	" Gordon and Lorain,	" "
1	"	" Clark and Gilbert,	" "
1	"	" Bergen and Clark,	" "

Total, 49, in the third district; 30 reservoirs connected, 19 not connected.

FIRE ALARM TELEGRAPH.

OFFICE OF THE FIRE ALARM TELEGRAPH, }
CLEVELAND, O., DEC. 31st, 1881. }

To the Honorable Board of Fire Commissioners :

GENTLEMEN :—In accordance with the rules and regulations of the Department I have the honor to submit my annual report in detail for the Telegraph branch of the Department, with suggestions for your future consideration, for the year ending December 31st, 1881.

The instruments and telephones have worked well during the year and given entire satisfaction. Four new alarm boxes have been purchased, three of which have been put into service. Also one was purchased by the Cleveland City Forge Company and placed in circuit.

An instrument for receiving alarms has been placed in the Third Assistant Chief's residence, and the following telephone connections have been made to the Exchange in the City Hall :

The Mayor's residence.

Fire Commissioner's residence, N. Weidenkopf.

Second Assistant Chief's residence, Joseph Speddy.

Police Commissioner's residence, J.H. Bradner.

The Board of Education.

The City Civil Engineer's office.

The Street Commissioner's office and residence.

The Health Office and the Small Pox Hospital, making in all forty-nine.

The number of calls answered will average 500 for each 24 hours.

A large number of wires having been put up during the year by the Telephone Co., and by private parties has made it difficult at times to keep the lines clear, consequently more assistance is required for outside work.

Twelve miles of new wire have been added during the year, about eight miles of it were placed on the Mutual Union Telegraph Co.'s poles.

During the ensuing year there ought to be about fifty miles of new wire purchased and used to replace that amount of old and unreliable wire; and the new wire ought to be placed on poles instead of on house tops, and if the additional help asked for is furnished this work can be performed by the members of the Department.

I would again call your attention to the necessity of placing a large bell upon the City Hall, or some other suitable place, where it can be heard. And said bell to be struck automatically from this office.

The following tables have been carefully prepared to show the number of alarms given for each hour of the day, each day of the week, day of the month, the number of alarms from each station, and the location of all alarm stations.

Respectfully submitted by

H. H. REBBECK,

Sup't of Fire Alarm Telegraph.

TABLE No. 1.
SHOWING THE NUMBER OF ALARMS FOR EACH HOUR OF THE DAY.

1881.	FORENOON.												AFTERNOON.												Total P. M.	Total.	
	Total A. M.												Total P. M.														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
January						2			1	1	3		7	1	1	2	3	....	1	4	3	1	2	1	3	22	29
February							5	1	2	1	1		10	2	1	3	2	4	2	1	1	3	4	4		26	36
March	1			1		2	1	2	1		2		11	2	2	2	2	....	4	2	2	1	2	1	18	29	
April				1		1		3	2	1	5		13	3	4	4	4	2	1	1	2	2	1	3	3	80	43
May	1			2		2	4	2		2	3		16	1	6	4	4	2	7	2	5	1	1	6	39	55	
June			2	2			1				2	3	10	1	1	....	3	2	2	3	1	....	....	....	1	16	26
July	1		1	1		1		2	3	3	2	3	17	2	2	5	6	3	3	4	4	3	1	....	3	86	53
August	5				1		2	1	1	1	4	3	18	2	7	2	2	3	4	1	1	5	4	5	1	37	55
September		1	1		3		2	1	1	8	4		21	4	....	8	1	2	3	5	3	2	....	3	3	34	55
October	1		1	2		3	3	1		2	....		13	2	3	....	4	....	2	1	3	2	....	3	3	23	36
November		1	2			1		2	3	1	2	1	13	....	3	1	....	0	1	....	7	....	....	2	1	21	34
December	2	2				3			1	1	2	....	11	....	3	5	3	5	3	1	6	4	....	1	2	33	44
Total	10	5	7	9	4	13	15	18	17	25	27	10	160	16	34	34	33	29	31	27	40	24	12	24	31	335	495

TABLE No. 2.
SHOWING THE NUMBER OF ALARMS FOR EACH DAY OF THE WEEK.

1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	8	2	2	8	4	1	6	6	3	5	4	6	55
Monday	4	6	2	5	13	3	11	9	10	6	3	5	77
Tuesday	1	4	5	2	6	7	6	6	9	6	7	5	64
Wednesday	3	4	5	6	13	3	7	10	14	3	6	4	78
Thursday	1	8	4	4	10	7	11	3	7	3	6	11	75
Friday	7	7	5	11	4	2	8	8	6	4	2	5	69
Saturday	5	5	6	7	5	3	4	13	6	9	6	8	77
Total.....	29	38	29	43	55	26	53	55	55	36	34	44	485

TABLE No. 3.
SHOWING THE NUMBER OF ALARMS GIVEN FROM EACH STATION.

Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Stations.	Alarms.	Total.
2	3	24	2	46	2	69	3	95	1	142	7	212	2	252	2	346	1	...
8	5	25	21	47	1	71	...	96	5	143	...	213	2	312	...	347	...	...
4	16	26	1	48	1	72	2	121	3	145	5	214	...	113	...	421	9	...
5	3	27	3	49	...	73	13	123	5	146	1	215	11	314	...	423	5	...
6	2	28	13	51	1	74	2	124	13	147	1	216	2	315	...	424	...	...
7	2	29	3	52	4	75	3	125	6	148	...	217	3	316	2	425	...	...
8	6	31	4	53	1	76	3	126	4	149	1	218	3	317	...	426	4	..
9	3	32	9	54	1	81	2	127	7	251	...	232	2	318	2	427	...	...
10	3	34	6	56	...	82	2	128	1	152	1	234	6	319	...	431	1	...
12	17	35	5	57	...	83	...	129	...	153	...	235	1	321	2	432	3	...
13	11	36	1	58	...	84	1	131	2	154	4	236	1	323	2	434	3	...
14	...	37	4	61	3	86	4	132	23	156	1	237	2	324	...	435	3	..
15	4	38	4	62	12	86	1	134	4	162	1	241	2	325	4	...	...	...
16	2	39	1	63	...	87	3	135	8	163	5	242	3	326	...	...	...	...
18	3	41	1	64	...	91	3	136	...	164	4	143	5	327	1	...	...	...
19	10	42	1	65	3	92	...	137	5	165	...	245	1	341	...	...	...	...
21	14	45	7	67	...	93	2	138	2	172	6	246	1	342	1	...	...	...
23	5	46	3	68	1	94	4	139	1	173	...	247	...	345	1	...	...	...
106			92		30		46		90		37		47		17		28	495

NO. AND LOCATION OF FIRE ALARM STATIONS.

2. City Hall.
3. Corner Ontario and Lake streets.
4. Fire Station No. 1, corner St. Clair and Academy.
5. Cor. Water and Lake Streets.
5. Corner Water and St. Clair streets.
6. Union Passenger Depot.
6. Corner Spring and Front streets.
7. Cleveland & Pittsburgh freight house.
8. Corner River and Lighthouse streets.
9. Corner River and St. Clair streets.
10. Corner Superior and East River streets.
12. Corner Columbus and Center streets.
12. Corner Columbus and Voltaire streets.
12. Corner Merwin and British streets.
13. No. 13 Carter street, near rolling mill.
14. No. 30 Canal street, near Michigan.
15. Corner Superior and Water streets.
16. Corner Superior and Bank streets.
18. Corner Superior and Seneca streets.
19. Central Police Station.
19. Fire Station No. 2, Champlain street.
21. Corner Euclid avenue and Sheriff street.
23. Corner Carter and Scranton avenue.
24. City Forge.
24. Corner Central Way and Ohio street.
25. Central Market House.
26. Corner Erie and Eagle streets.
27. Corner Erie and Prospect streets.
28. Corner Erie and St. Clair streets.

29. Corner Walnut and Muirson streets.
31. Corner Commercial and Canal streets.
32. Hill street, between Commercial and Cross.
34. Junction of Erie street and Woodland avenue.
35. Fire Station No. 3, Huntington street, near Garden.
36. Perry street, near Prospect.
37. Corner Perry and Scovill streets.
38. Corner Perry street and Broadway.
39. Corner Woodland avenue and Harman street.
41. Scranton avenue at N. Y. P. & O. crossing.
42. Railroad crossing foot of Willey street.
43. Railroad crossing foot of Mill street.
45. Police Station on Barber avenue.
46. Corner Vega avenue and Hitchcock street.
47. Corner Mill and Seymour streets.
48. Corner Scranton avenue and Rowley street.
49. City Infirmary on Scranton avenue.
51. Fire Station No. 8 on Scranton avenue.
52. Corner Literary and Professor streets.
53. Corner Jennings and Fairfield streets.
54. Corner Starkweather and Merchant avenues.
56. Corner Central Way and Mahoning street.
57. Corner Central Way and Jefferson street.
58. Corner University and Jefferson streets.
61. Broadway, junction of Irving street.
62. Standard Oil Refinery on Broadway.
62. Standard Oil Refinery at Agitators.
63. Standard Oil Co.'s cooper shop, Broadway.
64. Corner Independence and Holly streets.
65. Corner Broadway and Forest street.
67. Trumbull street, near Forest.
68. Fire Station No. 13, on Broadway.
69. Corner Willson avenue and N. Y., P. & O. crossing.
71. Garden street, between Perry and Greenwood.
72. Corner Scovill avenue and Henry street.
73. Corner Woodland avenue and Irving street.
74. Corner Broadway extension and Jackson.
75. Corner Croton and Forest streets.
76. Forest street, near new paper mill.

81. Corner Scovill avenue and Maple street.
82. Police Station on Forest street.
83. Corner Woodland and Case avenues.
84. Corner Scovill avenue and Kennard street.
85. Fire Station No. 9, Willson avenue, near Woodland.
86. Corner Herald and Grand streets.
87. Corner Madison avenue and Kinsman street.
91. Corner Sterling avenue and Garden street.
92. Corner Sterling avenue and Prospect street.
93. Corner Cedar avenue and Greenwood street.
94. Fire Station No. 7, Forest street, near Garden.
95. Corner Prospect and Case avenue.
96. Corner Willson and Euclid avenues.
97. Corner Cedar avenue and Hayward street.
121. Whisky Island.
123. Corner Center and Hemlock streets.
124. Corner Main and Sycamore streets.
125. Corner Center and Winslow streets.
126. Corner Main and Washington streets.
127. Police Station on Detroit street.
128. West River street, between Detroit and Columbus.
129. Corner Lorain and Brock streets.
131. Oil Refinery, foot of Abbey street.
132. Fire Station No. 6, corner Lorain and Brainard.
134. Corner Pearl and Franklin streets.
135. Fire Station No. 4, corner Church and State streets.
136. Corner Franklin and Kentucky streets.
137. Corner Bridge and Fulton streets.
138. Corner York and Jay streets.
139. Corner Jersey and Chatham streets.
141. Near Water Works Pump House.
142. Cor Detroit and Taylor streets.
143. Corner Harbor and Woodbine streets.
145. Corner Lorain and Randall streets.
146. Corner Willet and Chatham streets.
147. Corner Bailey and Devine streets.
148. Corner Burton and Buckley streets.
149. Corner Harbor and Cook streets.
151. Corner Herman and Weddell streets.
152. Corner Washington and St. Paul streets.
153. Corner Franklin and Dare streets.

154. Corner Lorain and Liberty streets.
156. Corner Junction and Ravine streets.
162. Corner Detroit and Waverly streets.
163. Corner Bridge and Cortland streets.
164. Fire Station No. 12, Waverly avenue, near Lorain.
165. Corner Lorain and Chestnut Ridge Road.
171. Hook and Ladder No. 5, Fire Station on Pearl street.
172. Corner Clark and Pleasant streets.
173. Corner Clark and Bergen streets.
212. Corner Canfield and Davenport streets.
213. Corner Lake and Dodge streets.
214. Corner Euclid and Dodge street.
215. Corner St. Clair and Ross streets.
216. Police Station on Oregon street.
217. Corner St. Clair and Alabama streets.
218. Lake Shore Machine Shops.
231. Otis Iron and Steel Works.
232. Pittsburgh Machine Shop.
234. Fire Station No. 5, Phelps street, near St. Clair.
235. Corner Sterling and Payne avenues.
236. Payne avenue, between Buckeye and Wason streets.
237. Union Steel Screw Co.'s Works.
238. Brush Electric Co.'s Works on Mason street.
241. Corner Payne and Willson avenues.
242. Corner Superior street and Case avenue.
243. Corner Lake and Wason streets.
245. Corner St. Clair and Lyman streets.
245. Corner St. Clair and Kirtland streets.
246. Corner St. Clair street and Willson avenue.
247. Corner Oxford and Lowell streets.
253. Corner Superior and Huntington streets.
312. Corner Euclid and Dunham avenues.
313. Corner Euclid and Giddings avenues.
314. Corner Euclid and Madison Avenues.
316. Fire Station No. 10, Doan street, near Euclid avenue.
317. Corner Euclid avenue and Walter street.
318. Corner Hough and Ansel avenues.
319. Corner Hough avenue and Crawford road.
321. Corner Scovill avenue and Slater street.
323. Corner Woodland and Willcutt avenues.
324. Corner Platt and Carr streets.

325. Workhouse on Woodland avenue.
326. Eberhard Manufacturing Co., Fifteenth Ward.
326. Corner Hough and Madison avenues.
327. Corner Superior street and Madison avenue.
341. Corner Garden street and Willson avenue.
342. Junction Garden street and C. & P. R. R.
343. Corner Cedar and Lincoln avenues.
346. Corner Cedar avenue and Logan street.
347. Corner Cedar avenue and Fairmount street.
413. Corner Todd street and N. Y. P. & O. Crossing.
414. Corner Union street and Broadway.
421. Fire Station No. 11, Walnut street.
423. Corner Broadway and Harvard street.
424. Corner Miles and Atwater streets.
425. Stone, Chisholm & Jones' Mills.
426. Union street, near Union Iron Works.
427. Corner Woodland Hills avenue and Hull street.
431. Insane Asylum, Eighteenth Ward.
432. Corner Harvard and Jones avenue.
434. Corner Broadway and Fullerton street.
435. Wire Mills, Eighteenth Ward.

CONCLUSION.

Having called attention in former reports to the necessity of better fire protection in the business portion of the city, we would again recommend in strong terms that the Fire Department Fund be increased sufficiently to enable the Board to meet some of the urgent demands.

The Cleveland Fire Department is entitled to more credit for its excellent work during the past year than some of our citizens accord to it. It is an acknowledged fact that dangerous fires have been handled in the most skillful and praiseworthy manner, a fact which substantiates the oft-repeated assertion that the Department of this city stands second to no other in the country in point of efficiency and discipline.

The growth of the city and the increased demand for fire protection leaves the Department, with its present number of engines, apparatus and men, too small to render the most satisfactory service. This becomes apparent whenever a fire of any magnitude occurs in the business portion of the city. Then it is necessary to call engines from their localities, thus leaving a large and important district without adequate protection, resulting, sometimes, in a great loss of property. Chief Dickinson, with his extensive experience as an able and competent fireman, urges an immediate increase of apparatus and men, and the citizens will join heartily in the recommendation. The importance of proper fire protection in a city like Cleveland cannot be over estimated.

For about eighteen years there has been no increase made in the machinery immediately available in the central part of the city. During all this period this portion of the city has been growing in importance, new blocks have been erected, the territory covered has greatly increased and the value of the prop-

erty has been increased ten fold. The time has certainly arrived when the public interests demand better protection from fire in the heart of the city.

It has been suggested that an additional engine and apparatus be purchased and permanently located on the city property immediately in rear of the City Hall. It is proposed to get an engine far heavier and more powerful than any now in use in this city; an engine specially calculated to render the promptest and most effective service in the case of large fires. Everything is favorable for the accomplishment of such an improvement. The demand for it most certainly exists. The land in question, being leased by the city for a term of years, is entirely unused at present, save as a place for the deposit of rubbish. A thoroughly equipped engine thus centrally located would not fail to prove itself a satisfactory investment within a year, as the history of several large fires during the last year or two would abundantly prove. The need of it is two fold: to secure the most positive safeguard against any sweeping conflagration in the densely built up districts of the city, and to relieve the outlying precincts from the necessity of frequently sending their apparatus down town to their own impoverishment.

There should be an ordinance regulating the manner in which large audiences are crowded in places of amusements. As it is at present the aisles and passage ways are frequently blocked, and when this occurs should an alarm of fire be given much damage might result therefrom. Had the Chief some authority, or could delegate authority to some competent person or persons, to keep the aisles clear when large audiences gather, much damage and perhaps loss of life might be averted.

The chief has assumed the authority thus far in clearing aisles, and the managers have been very courteous and have complied with his requests, but he feels a delicacy in issuing orders without the proper authority, and should an ordinance regulating this matter be passed then the Chief would have no hesitancy in acting and any future troubles which might arise would be obviated.

Another annoyance should receive the attention of the Council, and that is concerning poorly constructed chimneys. There are complaints almost daily made to this Board about dangerous chimneys. Many of them become somewhat dilapidated, extending but a few inches above the roof, and in many instances emit smoke and sparks offensive to adjoining property owners, and there is no ordinance to remedy this existing evil. An ordinance regulating the height of chimneys above the roof and causing them to be so constructed as to keep the sparks from issuing from the sides is recommended.

TO GUARD AGAINST INJURIES BY FIRE.

In compliance with an ordinance passed to guard against injuries by fires, quite a number of buildings have been provided with "fire escapes," but in some instances fire escapes are hardly sufficient to meet the demand, for in addition to what has been said about an ordinance giving the Chief authority to clear the aisles, etc., in places where many people congregate, we would urge the necessity of having precautionary measures taken to prevent fires in theaters and public places of amusements.

The Chief of the Baltimore Fire Department has given some valuable suggestions in his last report, to whom we are indebted for some of the following recommendations:

"An ounce of prevention is worth a pound of cure." In most all instances where theatres have burned there has been a great sacrifice of human lives. These places may be abundantly supplied with all the apparatus for putting out fires, still without competent and trained men, who are accustomed to fighting fires, the apparatus would be useless.

Buildings may have ample means of exit, so that they can be emptied in a very short time, when there is no excitement, but when three or four thousand people are congregated together and a panic ensues it is quite different; every one pushes his way to get out, struggling and crushing each other. Did the people know that each place of amusement was supplied

with proper apparatus for extinguishing fires, and that a sufficient number of firemen who understand handling apparatus was detailed at each performance to act in case of an accident, panics might be avoided.

The Fire Commissioners, Chief, and Assistant Chiefs should have access to these buildings at all times, to see that the appliances are in good condition for extinguishing fires and always ready for use, and that men detailed are at their posts.

Men detailed should be paid for their services by the lessees of the building.

As to what apparatus should be supplied by the owners of theaters for extinguishing fires Chief Dickinson should be authority; and an ordinance ought to be passed requiring the owners of these places of amusements to comply with the above suggestions.

By Order of the Board,

A. J. SPENCER,
Secretary.

ELEVENTH ANNUAL REPORT
OF THE
DIRECTORS AND SUPERINTENDENT
OF THE
WORKHOUSE
AND
HOUSE OF REFUGE AND CORRECTION,
TO
THE CITY COUNCIL OF CLEVELAND.
FOR THE YEAR 1881.

Officers.

Board of Directors :

DR. W. S. STREATOR, PRES'T. L. F. BURGESS, VICE-PRES'T.
SAM'L M. STRONG, CHAS. A. OTIS.
GEO H. WARMINGTON,

Superintendent,
W. D. PATTERSON.

Deputy Superintendent,
JOHN A. MCINTOSH.

Deputy Superintendent of the Refuge Department,
ALEXANDER McBANE.

Principal Matron,
MRS. W. D. PATTERSON.

Physician,
DR. P. H. SAWYER.

CLEVELAND, O., FEB. 13TH, 1882.

*To the Honorable President and Members of the City Council of
the City of Cleveland, Ohio :*

GENTLEMEN—Herewith please find the Eleventh Annual Report of the Board of Directors, and Superintendent of the Workhouse, House of Refuge and Correction, for the year ending Dec 31, 1881.

The same is respectfully submitted, by order of the Board, with a request that the same be printed in pamphlet form.

Yours, &c.,

W. D. PATTERSON,

Superintendent.

DIRECTORS' REPORT.

REPORT
OF THE
WORKHOUSE DIRECTORS.

To the Honorable City Council :

GENTLEMEN:—The President and Directors of the Workhouse and House of Refuge and Correction have the honor to submit to the Honorable City Council of the City of Cleveland their Eleventh Annual Report, it being for the year ending December 31st, 1881.

In presenting this report we do not propose to reiterate the often-repeated statements of the growth and progress, causes and effects, advantages and disadvantages of these institutions, but on these points would respectfully refer you to the very clear, complete and instructive reports that have been submitted by our predecessors during the first ten years.

We would particularly recommend to your favorable consideration many of the valuable suggestions offered in their last annual report by the retiring Board, and of these we especially desire to call your attention to the following :

“ It is our impression that there might be established at a convenient point in the city an Employment House where all the poor of the city could find work and earn by their labor, especially during the winter months, a sufficient remuneration for supplying their physical needs, &c.

We fully endorse the above suggestion of our honorable predecessors.

Idleness, drunkenness, gambling, and all their attendant evils are co-workers and contribute jointly and severally to fill our Poor Houses, Work Houses, Jails and Prisons. In carefully looking over the commitments and their causes we find that a very large proportion, if not all, are directly or indirectly, the result of intoxicating drink. In fact when to drink is added idleness we can truthfully say we have covered all the causes of these commitments.

These causes not only fill the Workhouse but the House of Correction as well—not directly but indirectly. “The sins of the fathers are visited upon the children.” Through no fault of his own, yet none the less inevitably, the child is made to suffer by the inheritance of moral and physical taint for the misdeeds and evil habits of the parent.

In the last annual report we find the following:

“The character of this Department is simply that of a common school to which wayward boys and girls, who are vagrants, incorrigible, or guilty of petty offences, are sent by our courts or by their parents and guardians, to be trained and educated. This method of instruction is limited to such as are less than sixteen years of age.

Though this institution stands in close proximity to the Workhouse, and is placed under the control of the same directors, yet it is as distinctly separate from the Workhouse in its operation and management as though it were miles away. In this relation it can be conducted and maintained at a much less expense than if placed elsewhere, and still with moral results that are excellent in the formation of character.”

While we agree fully with the foregoing, yet, in the judgment of this Board, legislation should be obtained at no distant day looking to the separation of the House of Correction and the Workhouse.

Permit us to call the attention of your Honorable Body to the minute statistical report of the Superintendent. In it you will find a full statement of the number of inmates in both branches of the institution, a full financial statement, receipts

and disbursements, together with statistical tables which will give you full and detailed information of the entire workings of the institution, which we trust will prove satisfactory.

The sanitary condition is good. While there has been no epidemic during the last year, there has been more sickness—not from any internal local causes, as we can learn, but in sporadic cases. This is not to be wondered at when we consider the character and condition of the convicts, and the enfeebled, scrofulous constitutions of the children, dependant upon hereditary causes and other circumstances over which they have no control.

We must give the Superintendent, Mr. W. D. Patterson, and the Matron, Mrs. W. D. Patterson great credit for their untiring care and watchfulness over every Department—and especially over the unfortunate children—as well as for their enforcement of thorough discipline in every branch, each officer being held strictly responsible for the faithful performance of his duties.

Respectfully submitted,

W. S. STREATOR, *Pres't.*

L. F. BURGESS,

C. A. OTIS,

GEO. H. WARMINGTON,

S. M. STRONG,

Directors.

SUPERINTENDENT'S
REPORT.

SUPERINTENDENT'S REPORT.

To the Honorable Board of Directors of the Workhouse, House of Refuge and Correction :

GENTLEMEN:—As per legal requirement I herewith present this my Tenth Annual Report of this institution, being for the year closing December 31st, 1881. In order to a better understanding of the general workings of these combined institutions I may state that practically there are two institutions—the Workhouse, for adults, male and female, and the House of Refuge and Correction, for juvenile offenders of both sexes, All under one roof and the same general management, though entirely different in government and discipline. The former punative and reformatory; the other educational and reformatory, based upon the principle that true reformation must embrace the educational

POPULATION.

	Males.	Females.	Total.
January 1st, 1881, in Prison, .	203	56	259
Received during the year, . .	1293	284	1577
	—	—	—
Total under care, . .	1496	340	1836
Discharged during the year, .	1244	275	1519
	—	—	—
Remaining December 31, 1881,	252	65	317
	—	—	—
An increase of over same date last year,	49	9	58
The average number for the year being per month, . .	212.17	84.50	266.67

A retrospect of the past years of the history of the institution and the arrests, trials, convictions and imprisonment of these unfortunates who have been sent up, and the frequency with which some offenders return after their release, suggest to the reflective mind that the object of their imprisonment, namely, the reformation of the offender, has not been accomplished, yet there are many who bear testimony to the fact that they have been brought to *know* themselves, as they had not in the past, as a result of their imprisonment, and yet the conclusion is forced upon us, that the laws, as enforced by trials, conviction and sentences, for short periods, or for small fines, does not accomplish the desired result, and cannot end in any permanent and lasting good. I cannot better express my conviction on this point than to reiterate what I said in my last annual report, as follows :

"I am fully persuaded that after a man or a woman has been two or more times committed to a penal or a reformatory institution by reason of the same offence, under existing laws, the law and the imprisonment, having failed to accomplish their reformation that then another system should prevail, that of an indeterminate sentence. Instead as now, let them be committed as children are to the House of Refuge, 'until reformed,' or as prisoners are now committed to the New York State Reformatory, at Elmira, until their reformation is accomplished. An imprisonment in such cases as above, would not only be wise and beneficial to the offender, but would be of especial advantage to the community financially."

It is worse than folly to attempt or expect the reformation of such old time chronic offenders as frequent our Police Court every week or every month. when they are out of confinement, by the infliction of such penalties, as an imprisonment of five, ten, twenty or thirty days, or by the imposition of fine and costs ranging from ninety cents to three dollars, or even five dollars.

The object sought to be accomplished by such a course, however good the intention of the law, or however correct the motives of those whose duty it is to enforce the same, must end

in an expensive failure, and the offenders continue in their degradation and debauchery and bestial inebriety, notwithstanding the laws, the courts and the prison. To be effective, and work permanent cure, the culprit must be made to feel the terrors of the law.

I call attention to a want in our State, that has heretofore been under consideration by the Legislature and by the Board of State Charities, and to which we have alluded in a previous report, and that is this, an intermediate prison, coming between the State Penitentiary and the Workhouse or jail.

This should be a reformatory prison under the care of the State, where young offenders of both sexes can be sent on a first conviction, instead as now, either to the State Penitentiary or to the Workhouse, where they are in daily contact with those who are old in crime, and whose lives are a sad commentary on the reformatory power of a State prison under the present contract system. These young offenders should, when first convicted, be placed under more modern and humane discipline, than that of a State prison, as now understood, a system looking to their ultimate recovery. This must be accomplished, if ever, by the education of the head and heart, to the end that the offender may be elevated to a higher plane, so that he, or she may go forth again to society, not as a criminal and vagabond, a prey upon community, but a citizen, a self-supporting man, and a contributor to the prosperity of himself and his fellow man.

I submit for your consideration the accompanying financial statements, showing receipts and disbursements for the year, also statistical tables.

The accounts show that we commenced the year	
with a balance on hand of	\$10,471 26
Received during the year from all sources,	73,533 28
	<hr/> 84,004 54
And the disbursements by warrants drawn on	
the City Treasurer to the amount of	79,053 10
	<hr/> 4,951 44
Leaving on hand at the close of the year,	

The money thus paid out being for eleven months of the current year and one month of 1880.

I would call your attention to the fact that our resources have been greatly diminished by the taking from us by city ordinance the fines that are paid to us in cash, in City cases, or the penalties imposed for violation of City ordinances, and which, up to 1880, went into the Workhouse fund. These fines have since been paid over by us to the Police Court Fund, and in the year 1880 amounted to the sum of \$1,918 08, and in 1881 amounting to the sum of \$4,197 07.

This we cannot regard other than great injustice to this institution. To make the case more clear I state the following:

A criminal is committed to our care, with a time sentence and a fine and costs. While serving the time his labor goes to the benefit of the institution, if he works out all the fine, or a part of the same by labor, that is incorporated into our manufactured goods, and thus becomes a part of our legitimate revenue.

But that part paid in cash, if any, we are required to pay over to the Police Court fund. Exact justice would seem to say, that there is no reason for a division of this fund, whether paid in labor or in cash. If the amount of fine paid by labor should go into one fund—as it does—why not the part paid in cash go into the same fund.

I cite another case, of not unfrequent occurrence. A prisoner is sent up, from a drunken debauch, by reason of which he, or she, is unable to perform any labor, but must be placed under medical treatment, nursed and cared for until recuperated. The fine is then paid to us, we in turn pay the same over to the Police Court fund. The prisoner has performed no labor, has been fed, clothed, cleaned, had medical treatment for two to four, or six weeks, at the expense of the institution, and another fund than *our own*, to reap the benefit, which is gross injustice. The fine and labor, in all such cases, either *all* belongs to this institution, or else it does not, and should at once be definitely settled. The foregoing is presented, that the true

state of the case may be understood, for we know that there are many citizens who entertain the opinion that from the time these convicts are committed the institution begins to reap the benefit of their labor, and that our treasury is daily enriched by the payment of their fines.

Another source of revenue in the past has been cut off from us for the past fifteen months, namely the amount charged up to the County Commissioners of Cuyahoga County, for the boarding and support of juvenile offenders, committed to the House of Refuge for violations of State laws. These claims have always been paid, until as above stated, the question of liability on the part of the county has been raised by the County Commissioners, and the amount now due, \$7,613.15, is before a legal tribunal for adjudication.

IMPROVEMENTS.

The improvements, other than the ordinary necessary repairs, have been the erection of a fire-proof building in the western yard, as a store house for oils, paints, varnish etc. Also the erection of a two-story building for a coal house, the second story of which is to serve as dry room for the laundry. Also the remodeling of the old coal house for a new boiler room into which a new battery of three new steel tubular boilers have been placed, fourteen feet in length, and five feet in diameter, each boiler having 55—3½ inch flues.

The carpenter work, mason work and painting all being done by our own help. In the mason work of the new boilers, and the rebuilding the furnaces of the old boilers, skilled labor had to be employed.

A new flag stone floor has also been laid in the boiler house, without cost to the institution, other than the material.

A part of these improvements are not quite completed as we close the year, and only a small portion of the expense, therefore, goes into the year's disbursements.

You will please notice that this institution is now practically left to stand alone. That as shown, it is stripped of every other

income, than what may arise from our brush business, and a small amount received from the government for the boarding of a few United States prisoners. That no tax has been levied for the institution during the years 1880 or 1881. Also that the fines paid in city cases have been taken from us. The boarding, as formerly paid for the support of prisoners in State cases has been refused, and also the boarding in State cases for juvenile offenders has been refused; this latter is being contested, and we await the result.

Business during the latter half of 1880, and the first half of the current year was very much depressed. The demand for goods having largely decreased, and consequently diminished sales and profits. At the same time we show a decrease in current expenditures for the year. During the latter half of the year, there has been a marked and encouraging revival in our business. The demand for goods at the close of the year being in excess of our production. Thus we close up the old year, and enter upon the new, in the hope that it may be the most successful in the history of the institution. And yet, there are so many contingencies connected with our business, and with trade in general, and with the supply and character of our labor, that we are not in a position to give assurances that we shall not have to look to the City Authorities for assistance in the future. I may add in this connection, that the City should provide by taxation for all permanent improvements, or extensive repairs.

HOUSE OF REFUGE.

This department which is under the same roof with the workhouse, is practically a separate and distinct institution, and under an entirely distinct government, though under the same general supervision; its true object being the education and reformation of youthful offenders. The school being one of the chief agencies employed, together with labor enough—suited to their capacity and years—to induce habits of industry and mental activity at the same time.

In this department the year opened with

	Boys.	Girls.	Total.
	100	21	121
Received in 1881,	34	6	40
	<hr/>	<hr/>	<hr/>
Total under care,	134	27	161
Discharged in 1881,	53	7	60
	<hr/>	<hr/>	<hr/>
Remaining Dec. 31, 1881,	81	20	101

Showing a net decrease of twenty children during the year. We note in this connection, that there has been a great decrease in the numbers received into this department during the past year, fewer than in any year of its history—excepting the first two—and that more wayward young girls were committed to the House of Refuge, before a place was provided for them separate and apart from the female prison, than has been since a suitable place has been erected and furnished for them especially—while in the prison, or Workhouse proper, the commitments have largely exceeded any former year in its history.

These are significant facts, and may lead to the conclusion that incorrigible and vicious youths are decreasing in our city. But another fact is well understood by the careful observer, and that is this, that our streets abound, with vicious and vagrant youths, who ought to be under restraining influences, in some reformatory for their future well-being. But the policy of the past year as to arrests and convictions of this class of offenders would serve to indicate that they had better be allowed to grow up to more mature years in crime, and then attempt their reformation through the present system of jails, workhouses and penitentiaries; an experiment at once dangerous and expensive.

At the date of our last report, a rule had just been adopted, placing these schools under an entirely new and different system of government and gradation. One in our judgment wise, and entirely practical under the new order. The boys and

girls were classified into grades or classes, designated as follows, Freshman, Junior and Senior, according to their attainments, and a course of study adopted, embracing that which is all important in a common school education, and without which, the true object of the school fails.

Each grade is designated by a distinctive badge worn, and at the end of each school term of four months an examination of all the classes is made, and upon merit alone, are the children promoted from a lower to a higher grade, and from the higher, or senior grade, they are recommended to a final discharge. Thus far the rule has worked admirably, giving a new impetus to proficiency in the prescribed studies. We shall hope for the good of all the children who may be committed, and for the harmony and systematic workings of the schools, that the policy inaugurated under this new rule shall continue to be the rule of action in the future management.

This department had heretofore been under the care of male teachers. Early in the year a change was considered necessary, and Mrs. Alexander McBane, who had been connected with the schools for about six years, with male assistants, was given the supervision of the schools; and three lady assistants procured, who entered upon their work as teachers. And after an experience of one year, under the new rule and the new corps of teachers, we are satisfied that no mistake was made in deciding upon these changes.

Women had not heretofore been called to this work, fearing as we did, that they would prove inadequate to the task of governing and controlling this class of youth, but we are warranted in saying that they have met our fullest expectations; and our experience now is, that an institution of this character to succeed must have gathered about it, a homelike influence, and this can be accomplished in no way so well, as by the introduction of women as teachers, and care taken, bringing with them motherly love and affection, and all the refining and elevating characteristics of her womanly nature, and thereby dispel all that is coarse or harsh.

The progress made in the education of these children is highly satisfactory, when the unfavorable conditions, under which many of them have been brought up, are taken into account, coming here as they do, at times unlettered and without culture of any kind, when brought under proper discipline and instruction, show an aptitude for learning equal to that of the more favored classes. Boys and girls are going out from these schools, in whom we have great hope, as they are fitted for the activities of life, having an education that qualifies them for business and usefulness.

More than once we have called attention to the situation of the House of Refuge. So closely connected with the Workhouse as to be considered a part of the same, but separate and distinct in government and management, yet we have reason to fear the influence of this proximity has a baleful effect on the children here for reformatory and corrective purposes. An early separation of these combined institutions could not but work to their mutual advantage. If the boys are to remain here, as they doubtless must, for sometime to come, a dining-hall should be provided for them at once, the present one being altogether an unsuitable place. Attention is earnestly directed to this matter.

HEALTH.

The general health of the inmates has been good, considering that many of the adults, when received here are physically broken in health, from long continuance in dissipation and vagrancy, and by reason of such—have to be at once—after admitted, placed under the care of the physician for terms of from one week to three or more, and in some cases during their entire sentence.

During the year there were four deaths in the Workhouse and two in the House of Refuge. Dr. H. F. Biggar has been the physician in charge as in the past up to in December, when Dr. P. H. Sawyer was elected in his stead. In cases of pressing necessity Drs. G. W. Stevenson and J. B. McGee have been called. The eyes have been under the care of Dr. D. B. Smith,

RELIGIOUS.

Chapel services have been conducted, as in the past, on the Sabbath by ministers of various denominations, on invitation. These alternating with delegations from the Y. M. C. A. of the city. A Catholic service has also been regularly conducted on alternate Sabbaths in the morning, by an authorized priest of that denomination. To these services all the inmates are required to attend.

Frequent visits, and religious instruction has been given to the women and girls at stated times by Christian women of the city. We are encouraged to believe that though the field is not an encouraging one, viewed from a human standpoint, that some good results have, and will continue to follow, as a result of these labors.

Recently a new arrangement was decided upon for these Sabbath services. Ministers are now invited to come in and serve a month each at a time. And thus far we find the plan to work well. The teachings being instructive and satisfactory, and duly appreciated.

We are under many obligations to these Christian workers for their visits and practical teachings. They have the gratitude of their hearers.

I cannot close without gratitude to both the old and new Board of Management, for their uniform courtesy and forbearance, and for personal friendship.

W. D. PATTERSON,
Superintendent.

STATISTICAL TABLES.

SUPERINTENDENT'S STATEMENT.

EXHIBIT "A."

Statement of Receipts and Disbursements.

1881.

RECEIPTS.			
Jan. 1	Cash in hands of Superintendent.....	\$ 3,170 46	
	" " City Treasurer.....	7,300 81	
Dec. 31	Cash receipts for the year from Workhouse.....	\$73,403 15	\$ 10,471 23
	" " " " " Refuge.....	130 13	
			\$ 73,533 28
DISBURSEMENTS.			
Dec. 31	Cash paid by Warrants on City Treasurer.....		\$ 84,004 54
			\$ 79,053 10
	Balance on hand.....		\$ 4,951 44
	Viz: With City Treasury.....	\$ 4,850 51	
	" Superintendent.....	300 93	
			\$ 4,951 44

Detailed Statement of Receipts.

1881.

FROM WORKHOUSE.			
Dec. 31	Received on Brush Account.....		\$ 67,537 58
	" " Shoe.....		65 85
	" " for sale of Hags.....		18 58
	" " Barrels.....		6 32
	" " Hogs.....		317 00
	" " Real Estate.....		600 00
	" " Sheet Lead.....		42 12
	" " Tea Lead.....		190
	" " Scrap Iron.....		60 49
	" " One-Half Cost of Telephone Line.....		57 50
	" " sale of Soap Boxes.....		9 25
	" " Paper Waste.....		3 09
	" " Soap Grease.....		3 90
	" " Meat Bones.....		11 76
	" " Sundries.....		32 31
	" " Boarding of Prisoners.....		636 88
	" " Fines and State Cases.....		3,968 82
	Total Workhouse Receipts.....		\$ 73,403 15
FROM HOUSE OF REFUGE.			
	Received for Boarding Inmates.....	\$ 122 93	
	" " for Sale of Scrap Iron.....	7 20	130 13
	Receipts as above stated.....		\$ 73,533 28

EXHIBIT

Statement Showing Property on Hand and

DR.

1881.

EFFECTS.				
Dec. 31	Amount due by sundry persons on Book Accounts to Workhouse Department	\$39,053 11		
	Amount due by sundry persons on Book Accounts to House of Refuge Department	7,769 14		
			\$	46,822 25
	Furniture and Fixtures on hand in Workhouse	4,855 62		
	House of Refuge	1,267 74		6,123 36
	Clothing and Bedding on hand in Workhouse	2,679 55		
	House of Refuge	2,541 96		5,221 50
	Stationery, Blanks, etc. on hand in Workhouse	116 61		
	School Books, etc. House of Refuge	300 14		416 75
	Shoes on hand in Workhouse	453 35		
	House of Refuge	294 50		747 85
	General Implements on hand in Workhouse	1,803 05		
	House of Refuge	6 50		1,809 55
	Provisions on hand in Workhouse			782 17
	Medicine			31 74
	Fuel, etc.			181 65
	Shoe Shop Tools and Mat'ls on hand in Workhouse			75 65
	Brush Shop Man'f'd Stock	8,644 35		
	Raw	20,293 04		28,937 39
	Brush Shop Tools on hand in Workhouse			5,769 83
	Engine Oil Waste, etc.			24 14
	Lumber, etc.			215 40
	Live Stock			944 00
	Hay and Feed			57 30
	Cash in hands of Superintendent	300 93		
	City Treasurer	4,650 51		4,951 44
				108,111 97

EXHIBIT

Statement Showing Expenses and Profits of Cleveland

Dr.

1881.

EXPENSES.			
Dec. 31	Cost of Furniture and Fixtures,	Workhouse	\$ 489.75
		Refuge. . .	185.95
			\$ 675.71
	" Clothing and Bedding,	Workhouse	1,953.08
		Refuge.....	1,045.27
			2,998.35
	" Sundry Supplies,	Workhouse	1,711.81
		Refuge.....	415.46
			2,127.27
	" Shoes,	Workhouse	670.55
		Refuge. . .	337.79
			1,008.34
	" Medical Services and Supplies,	Workhouse	916.37
		Refuge. . .	273.60
			1,189.97
	" Salaries of Employees,	Workhouse	12,715.65
		Refuge. . .	1,879.11
			14,594.76
	" General Improvements,	Workhouse	1,426.87
		Refuge....	17.34
			1,444.21
	" " Implement,	Workhouse	544.87
		Refuge.....	16.53
			561.40
	" Provisions,	Workhouse	16,419.19
	" Fuel and Light,	"	3,926.84
	" Brush Shop Implement,	"	427.56
	" Engine Account,	"	139.41
	" Repairs to Boilers,	"	327.55
	" Hay and Feed,	"	792.75
	Boarding House of Refuge Inmates and Employees		9,701.11
	Loss by Bad and Doubtful Book Accounts		623.70
			\$56,998.16

EXHIBIT

Statement Showing Monthly Bills Approved and sent to

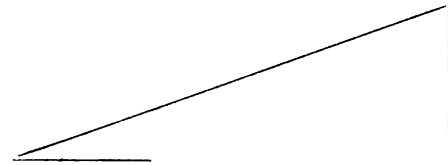
1881.

Jan. 31	Bills to Date Sent to City Auditor.....	\$10,469 78	
Feb. 28	" " " " "	7,289 30	
Mar. 31	" " " " "	7,298 09	
April 30	" " " " "	6,678 91	
May 31	" " " " "	8,732 23	
June 30	" " " " "	5,820 44	
July 31	" " " " "	7,847 91	
Aug. 31	" " " " "	4,739 12	
Sept. 30	" " " " "	5,076 40	
Oct. 31	" " " " "	6,625 16	
Nov. 30	" " " " "	5,607 10	
Dec. 31	" " " " "	13,648 91	
	Add for Dec. Bills 1880 paid in 1881....		\$89,893 41
			2,808 60
			\$92,702 01

"D."

City Auditor for Payment.

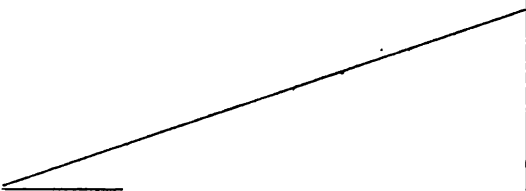
1881.

Dec. 31	Warrants Drawn at Date.....	\$79,053.10
	Amount of Bills Unpaid at this Date being Amount of Bills for December, 1881.....	13,648.91
		
		\$92,702.01

EXHIBIT

Superintendent's

1881.

Jan. 1	Balance on Hand	\$ 3,170.45
Dec. 31	Receipts to Date (Exhibit "A.")	73,533.28
		
		\$76,703.73

EXHIBIT

Statement of Workhouse, House of Refuge and

1881.

Jan. 1	Balance in Hands of City Treasurer (Exhibit "A.")	\$ 7,300.61
Dec. 31	Cash Deposited by Superintendent, "	76,402.80
		\$ 83,703.61

"E."

Cash Account.

1881.

Jan. 31	Cash Deposited in City Treasury.....	\$ 2,820 00	
Feb. 28	" " " "	4,921 53	
Mar. 31	" " " "	7,000 00	
April 30	" " " "	8,160 00	
May 31	" " " "	6,007 27	
June 30	" " " "	9,523 00	
July 31	" " " "	9,814 00	
Aug. 31	" " " "	6,275 00	
Sept. 30	" " " "	1,383 00	
Oct. 31	" " " "	8,067 00	
Nov. 30	" " " "	6,263 00	
Dec. 31	" " " "	5,509 00	
	Balance in Superintendent's Hands (Exhibit "B.")		\$76,402 80
			300 93
			\$76,703 73

"F."

Correction Funds in City Treasury.

1881.

Dec. 31	Warrants Paid by City Treasurer (Exhibit "A.").....	\$79,053 10
	Balance in hands of City Treasurer	4,650 51
		\$83,703 61

ABSTRACT OF WORKHOUSE ACCOUNTS.

DR. CR.

		BRUSH ACCOUNT.			
1881					
Jan.	1	To Balance on hand	\$ 35.72	16	
Dec.	31	" Purchases during the year	49 23	65	
		" Profit on this account	15,719	57	
Dec.	31	By Sales during the year			71,740 99
		" Balance on hand			28,939 39
			\$100,678 38	\$100,678 38	
1881					
		SHOE SHOP ACCOUNT.			
Jan.	1	To Balance on hand	153	83	
Dec.	31	" Purchases during the year	545	29	
		" Profit on this account	327	72	
Dec.	31	By Shoe Repairs			65 65
		" Shoes for Workhouse			684 50
		" Shoes for House of Refuge			200 95
		" Balance on hand			75 65
			\$ 1,026 75	\$ 1,026 75	
1881					
		LIVE STOCK ACCOUNT.			
Jan.	1	To Balance on hand	902	00	
Dec.	31	" Purchases during the year			
		" Profit on this account	247	00	
Dec.	31	By Sales of Stock during the year			205 00
		" Balance on hand			944 00
			\$ 1,149 00	\$ 1,149 00	
1881					
		FURNITURE AND FIXTURES ACCOUNT.			
Jan.	1	To Balance on hand	4,744	47	
Dec.	31	" Purchases during the year	611	98	
Dec.	31	By Balance on hand			4,855 62
		" Sales of damaged iron bedsteads			11 08
		Expense of this account			490 75
			\$ 5,356 45	\$ 5,356 45	
1881					
		CLOTHING AND BEDDING ACCOUNT.			
Jan.	1	To Balance on hand	3,163	98	
Dec.	31	" Purchases during the year	1,488	18	
Dec.	31	By Sales old rags during the year			19 58
		" Balance on hand			2,679 55
		Expense of this account			1,953 03
			\$ 4,652 16	\$ 4,652 16	
1881					
		SUNDRY SUPPLIES ACCOUNT.			
Jan.	1	To Balance on hand	57	38	
Dec.	31	" Purchases during the year	1,839	03	
Dec.	31	By Sales soap-boxes, etc., during the year			68 04
		" Balance on hand			116 61
		Expense of this account			1,711 81
			\$ 1,896 46	\$ 1,896 46	

Dr. Cr.

		SHOE ACCOUNT.			
1881					
Jan.	1	To Balance on hand	434	75	
Dec.	31	" Purchases during the year	689	15	
Dec.	31	By Balance on hand			453 35
		Expense of this account			670 55
			\$ 1,123	90	\$ 1,123 90
1881		PROVISION ACCOUNT.			
Jan.	1	To Balance on hand	395	01	
Dec.	31	" Purchases during the year	16,891	28	
Dec.	31	By Sales barrels, bones, etc.			84 94
		" Balance on hand			782 17
		Expense of this account			16,419 19
			\$ 17,286	30	\$ 17,286 30
1881		FUEL AND LIGHT ACCOUNT.			
Jan.	1	To Balance on hand	4	62	
Dec.	31	" Purchases during the year	4,058	87	
Dec.	31	By Balance on hand			181 65
		Expense of this account			3,923 84
			\$ 4,108	49	\$ 4,108 49
1881		IMPLEMENT ACCOUNT.			
Jan.	1	To Balance on hand	1,556	80	
Dec.	31	" Purchases during the year	791	12	
Dec.	31	By Balance on hand			1,803 05
		Expense of this account			544 87
			\$ 2,347	92	\$ 2,347 92
1881		BRUSH SHOP IMPLEMENT.			
Jan.	1	To Balance on hand	5,521	99	
Dec.	31	" Purchases during the year	698	35	
Dec.	31	By Sales of broken tools, etc.			22 95
		" Balance on hand			5,769 83
		Expense of this account			427 56
			\$ 6,220	34	\$ 6,220 34
1881		HAY AND FEED ACCOUNT.			
Jan.	1	To Balance on hand	17	86	
Dec.	31	" Purchases during the year	851	40	
Dec.	31	By Sales of sundries			19 00
		" Balance on hand			57 30
		Expense of this account			792 75
			\$ 869	06	\$ 869 06
1881		ENGINE ACCOUNT.			
Jan.	1	To Balance on hand	40	14	
Dec.	31	" Purchases during the year	123	41	
Dec.	31	By Balance on hand			24 14
		Expense of this account			139 41
			\$ 163	55	\$ 163 55

		Dr. Cr.	
1881		MEDICAL SERVICES AND SUPPLIES.	
Jan. 1	To Balance on hand	39 81	
Dec. 31	" Professional services and drugs	908 51	
Dec. 31	By Balance on hand		31 74
	Expense of this account		916 37
		\$ 948 11	\$ 948 11
1881		IMPROVEMENT ACCOUNT.	
Jan. 1	To Balance on hand	72 20	
Dec. 31	" Purchases during the year	1,622 19	
Dec. 31	By Sales of sheet lead		42 12
	" Balance on hand		215 40
	Expense of this account		1,436 87
		\$ 1,694 39	\$ 1,694 39
1881		BOILER ACCOUNT.	
Jan. 1	To Purchases during the year	355 62	
Dec. 31	By Sales of old boiler iron		28 07
Dec. 31	Expense of this account		327 55
		\$ 355 62	\$ 355 62
1881		SALARIES ACCOUNT.	
Jan. 1	To Balance on hand	14,259 82	
Dec. 31	" Salaries for the year		
Dec. 31	By Salaries of Brush Foreman and Assistants		1,482 17
	" Salaries of Tailor		52 00
	Expense of this account		12,715 65
		\$ 14,259 82	\$ 14,969 82

ABSTRACT OF HOUSE OF REFUGE ACCOUNTS.

		DR.		CR.	
1881		FURNITURE AND FIXTURES.			
Jan. 1	To Balance on hand.....	\$	1,231 57		
Dec. 31	" Purchases during the year.....		229 33		
Dec. 31	By Sales of damaged iron bedsteads				7 20
	" Balance on hand.....				1,267 74
	Expense of this account.....				185 96
		\$	1,460 90	\$	1,460 90
1881		CLOTHING AND BEDDING ACCOUNT.			
Jan. 1	To Balance on hand.....		2,994 78		
Dec. 31	" Purchases during the year.....		592 44		
Dec. 31	By Balance on hand.....				2,541 92
	Expense of this account.....				1,045 25
		\$	3,587 22	\$	3,587 22
1881		SHOE ACCOUNT.			
Jan. 1	To Balance on hand.....		426 75		
Dec. 31	" Purchases during the year.....		205 54		
Dec. 31	By Balance on hand.....				294 50
	Expense of this account.....				337 79
		\$	632 29	\$	632 29
1881		BOARDING ACCOUNT.			
Jan. 1	To Balance on hand.....				
Dec. 31	" Board of Refuge Officers.....		887 11		
	" Board of Refuge Inmates.....		8,814 00		
Dec. 31	By Cuyahoga County Commissioners				6,041 70
	" Individual.....				166 43
	Expense of this account.....				3,492 98
		\$	9,701 11	\$	9,701 11
1881		IMPROVEMENT ACCOUNT.			
Jan. 1	To Purchases during the year.....		23 84		
Dec. 31	By Balance on hand.....				6 50
	Expense of this account.....				17 34
		\$	23 84	\$	23 84
1881		SUNDRY SUPPLIES ACCOUNT.			
Jan. 1	To Balance on hand		174 83		
Dec. 31	" Purchases during the year.....		540 77		
Dec. 31	By Balance on hand				300 14
	Expense of this account.....				415 46
		\$	715 60	\$	715 60

		Dr.	Cr.
1881	GENERAL IMPLEMENT ACCOUNT.		
Dec. 31	To Purchases during the year.....	16 53	
Dec. 31	Expense of this account.....		16 53
		\$ 16 53	16 53
1881	DRUGS AND MEDICAL ATTENDANCE.		
Dec. 31	To Drugs and professional services.....	273 60	
Dec. 31	Expense of this account.....		273 60
		\$ 273 60	273 60
1881	SALARIES ACCOUNT.		
Dec. 31	To Salaries during the year.....	1,879 11	
Dec. 31	Expense of this account.....		1,879 11
		\$ 1,879 11	1,879 11

INVENTORY OF PROPERTY ON HAND, 1881.

1881									
Dec.	31	Furniture and Fixtures.....	\$	6,123	36				
		Clothing and Bedding.....		5,221	50				
		Sundry Supplies.....		416	75				
		Shoes.....		747	85				
		General Implements.....		1,809	55				
		Brush Stock, manufactured and raw		28,937	39				
		" " tools.....		5,769	83				
		Provisions.....		782	17				
		Medicines.....		31	74				
		Fuel and Light.....		181	65				
		Shoe Shop, tools, materials, etc.....		75	65				
		Engine Oil, Waste, etc.....		24	14				
		Lumber, etc.....		215	40				
		Live Stock.....		944	00				
		Hay and Feed.....		57	30				
						\$	51,338	28	
		SUBDIVIDED AS FOLLOWS:—IN EXHIBIT "B."							
1881									
Dec.	31	Furniture and Fixtures, Workhouse.....		4,855	62				
		" " Refuge.....		1,267	74				
							6,123	36	
		Clothing and Bedding, Workhouse.....		2,679	55				
		" " Refuge.....		2,541	95				
							5,221	50	
		Sundry Supplies, Workhouse.....		116	61				
		" " Refuge.....		300	14				
							416	75	
		Shoes, Workhouse.....		453	39				
		" " Refuge.....		294	50				
							747	85	
		General Implements, Workhouse.....		1,803	05				
		" " Refuge.....		6	50				
							1,809	55	
		Brush Stock, manufactured.....		8,644	35				
		" " raw.....		20,293	04				
							28,937	39	
		Brush Shop Tools.....					5,769	83	
		Provisions.....					782	17	
		Medicines.....					31	74	
		Fuel and light.....					181	65	
		Engine Oil, Waste, etc.....					24	14	
		Lumber, etc.....					215	40	
		Live Stock.....					944	00	
		Hay and Feed.....					57	30	
		Shoe Shop, tools, materials, etc.....					75	65	
						\$	51,338	28	

COMPARATIVE STATEMENT.

SHOWING DRAFTS ON CITY TREASURY AND DEPOSITS IN SAME
SINCE THE OPENING OF THE INSTITUTION.

1871.		
Warrants drawn on City Treasury	\$ 35,882 74	
Deposits by Superintendent in City Treasury	1,230 98	
Excess of Warrants		\$ 34,651 76
1872.		
Warrants drawn on City Treasury	\$ 42,940 50	
Deposits by Superintendent in City Treasury	6,903 83	
Excess of Warrants		\$ 36,036 67
1873.		
Warrants drawn on City Treasury	\$ 61,413 73	
Deposits by Superintendent in City Treasury	37,690 64	
Excess of Warrants		\$ 23,723 13
1874.		
Warrants drawn on City Treasury	\$ 65,382 41	
Deposits by Superintendent in City Treasury	51,000 81	
Excess of Warrants		\$ 14,381 60
1875.		
Warrants drawn on City Treasury	\$ 84,662 04	
Deposits by Superintendent in City Treasury	56,342 94	
Excess of Warrants		\$ 28,319 30
1876.		
Warrants drawn on City Treasury	\$ 78,343 62	
Deposits by Superintendent in City Treasury	40,182 77	
Excess of Warrants		\$ 32,150 85
1877.		
Warrants drawn on City Treasury	\$ 80,013 97	
Deposits by Superintendent in City Treasury	82,697 49	
Excess of Deposits		\$ 2,683 52

COMPARATIVE STATEMENT—CONTINUED.

SHOWING DRAFTS ON CITY TREASURY AND DEPOSITS IN SAME
SINCE THE OPENING OF THE INSTITUTION.

1878.		
Warrants drawn on City Treasury	\$ 132,812 88	
Deposits by Superintendent in City Treasury	92,509 47	
Excess of Warrants.....		\$ 40,303 41
1879.		
Warrants drawn on City Treasury	\$ 97,330 73	
Deposits by Superintendent in City Treasury	101,281 91	
Excess of Deposits.....		\$ 3,951 18
1880.		
Warrants drawn on City Treasury	\$ 113,134 31	
Deposits by Superintendent in City Treasury	83,321 68	
Excess of Warrants.....		\$ 29,812 63
1891.		
Warrants drawn on City Treasury	\$ 79,053 10	
Deposits by Superintendent in City Treasury	76,402 80	
Excess of Warrants.....		\$ 2,650 30

Statement of Amount of Fines Collected by Superintendent
IN CITY AND STATE CASES FOR THE YEAR 1881.

MONTHS.	City Cases.	State Cases.	Total.
January.....	\$56 54	\$68 92	\$125 46
February.....	120 70	4 76	125 46
March.....	301 75	56 41	358 16
April.....	82 89	42 87	125 76
May.....	213 95	204 53	418 48
June.....	227 53	173 11	400 64
July.....	271 25	324 60	595 85
August.....	408 14	200 61	608 75
September.....	438 79	415 21	854 00
October.....	621 67	976 30	1,597 97
November.....	850 54	593 05	1,443 59
December.....	514 22	938 45	1,452 67
Total.....	\$4,107 97	\$3,998 82	\$8,106 79

WORKHOUSE STATISTICS.

TABLE No. 1.

	Male.	Female.	Total.
Remaining January 1st, 1881.....	203	56	259
Whole number committed during 1881.....	1296	284	1577
Total.....	1496	340	1836
Discharged during 1881.....	1244	275	1519
Total remaining December 31, 1881	252	65	317

TABLE No. 2.

Number Received Each Month.

	Male.	Female.	Total.
Remaining January 1st, 1881	203	56	259
Received during January, 1881.....	49	11	60
" February, 1881.....	39	14	53
" March, 1881.....	64	18	82
" April, 1881.....	86	17	103
" May, 1881.....	86	7	93
" June, 1881.....	114	35	149
" July, 1881.....	136	35	171
" August, 1881.....	179	37	216
" September, 1881.....	136	36	172
" October, 1881.....	159	24	183
" November, 1881.....	101	26	127
" December, 1881.....	144	24	168
Total.....	1496	340	1836
Discharged during 1881.....	1244	275	1519
Remaining December 31st, 1881.....	252	65	317

TABLE No. 3.

Committed from following Courts.

	Male.	Female.	Total.
Police Court	1282	282	1544
Common Pleas Court.....	14	0	14
United States District Court.....	15	2	17
Justice Court.....	2	0	2
Total... ..	1293	284	1577

TABLE NO. 4.

Offenses.

	Male.	Female	Total
Assault and battery	85	6	91
" " and petit larceny	1	0	1
" " " intoxication	10	0	10
" " " disorderly conduct	1	0	1
" " " abusing family	1	0	1
" " " disturbance	2	0	2
" threatening	2	0	2
Abusing Family	5	0	5
Attempting to intimidate a witness	1	0	1
" " bribe a witness	0	1	1
Breaking and entering into dwelling house in day-time. ...	2	0	2
Carrying concealed weapons	12	1	13
" " " and petit larceny	1	0	1
" " " embezzlement	1	0	1
Common prostitute	0	16	16
" beggar	4	1	5
Cruelty to animals	2	0	2
Counterfeiting	2	0	2
Contempt of court	0	1	1
Carrying on business of retail liquor dealer without license.	5	0	5
Destroying property	3	1	4
Disorderly conduct	42	16	58
" " and carrying concealed weapons	1	0	1
Disturbance	36	10	46
Defrauding U. S. of special tax on spirits	1	0	1
Execution	1	1	2
Embezzlement	3	0	3
Embezzling letter from U. S. mail	1	0	1
Fornication	1	0	1
Forcibly breaking into post office	1	0	1
Habitual disturber of the peace	1	0	1

TABLE No. 4—*Continued.*

	Male.	Female	Total
Housebreaking in day-time.....	1	0	1
“ “ “ and petit larceny	2	0	2
Intoxication.....	719	167	886
“ and peddling without license	1	0	1
“ “ Destroying property.....	2	2	4
“ “ Carrying concealed weapons	6	0	6
“ “ indecent exposure of person.....	1	0	1
“ “ assault and threatening.....	1	0	1
“ “ disorderly conduct	0	1	1
Indecent exposure of person.....	2	0	2
Indecent conduct	4	1	5
Injuring property.....	1	0	1
Intoxication and residing in house of ill fame.....	0	1	1
“ “ suspicious person	1	0	1
“ “ disturbance.....	1	0	1
Keeping house of ill fame	3	4	7
“ disorderly house.....	1	2	3
“ gambling house	2	0	2
Larceny.....	1	0	1
Making and forging counterfeit coin	1	0	1
“ false affidavit for pension	1	1	2
Obtaining money by false pretenses.....	2	0	2
“ goods “ “	1	0	1
Obstructing officer.....	4	1	5
Petty Larceny	99	18	117
“ “ and concealing stolen property.....	1	0	1
“ “ “ receiving “ “	2	0	2
“ “ “ intoxication.....	1	0	1
Passing counterfeit money.....	1	0	1
Playing ball on street.....	1	0	1
Resisting officer	2	0	2

TABLE NO. 4—*Concluded.*

	Male.	Female	Total
Receiving stolen property.....	2	0	2
Residing in house of ill fame	3	14	17
Suspicious person	51	1	52
Selling intoxicating liquor to minors.....	2	0	2
Unlawfully taking letter from post office.....	2	0	2
Vagrancy	97	12	109
Visiting house of ill fame.....	8	2	10
" gambling rooms.....	3	0	3
Violating property ordinance	13	2	15
" sidewalk ordinance.....	3	0	3
" park	1	0	1
" boot black	1	0	1
" railroad law	12	0	12
" Internal revenue law	0	1	1
" election liquor law.....	1	0	1
Wrongfully using a horse.....	1	0	1
Total.....	1293	284	1577

TABLE No. 5.
Discharged During the Year.

	Male	Female	Total
Labor.....	670	132	802
Labor and cash.....	335	99	434
Labor and pardon.....	22	2	24
Labor, pardon and cash.....	3	0	3
Expiration.....	17	4	21
Pardon and cash.....	1	0	1
Pardon and fine paid.....	4	1	5
Expiration.....	12	1	13
Expiration and fine paid.....	76	17	93
Expiration and costs paid.....	4	3	7
Expiration and time allowance for good conduct.....	3	0	3
Fine and costs paid.....	78	13	91
Costs paid.....	2	1	3
Costs paid and pardon.....	2	0	2
Death.....	3	1	4
Escaped.....	6	0	6
Taken to court.....	2	0	2
Writ of habeas corpus.....	1	0	1
Writ of error.....	3	1	4
Total.....	1244	275	1519

TABLE No. 6.
Monthly Average in Confinement.

	Male.	Female	Total.
Average During January.....	207.	50.15	257.15
" " February.....	204.75	43.75	248.50
" " March.....	200.	49.	249.
" " April.....	186.50	47.	233.50
" " May.....	181.33	46.77	228.10
" " June.....	167.77	40.35	208.12
" " July.....	164.64	52.78	217.44
" " August.....	212.84	57.61	270.45
" " September.....	226.07	63.53	299.60
" " October.....	267.22	67.20	334.42
" " November.....	266.13	70.30	336.43
" " December.....	251.78	65.48	317.26
" monthly attendance for the year.....	212.17	54.50	266.67

TABLE No. 7.
Individual Commitments since opening of Institution.

	Male	Female	Total
First Commitment.....	853	101	954
Second ".....	179	41	220
Third ".....	70	28	98
Fourth ".....	48	31	79
Fifth ".....	37	18	55
Sixth ".....	27	13	40
Seventh ".....	22	8	30
Eighth ".....	18	6	24
Ninth ".....	10	8	18
Tenth ".....	7	7	14
Eleventh ".....	4	4	8
Twelfth ".....	4	6	10
Thirteenth ".....	2	2	4
Fourteenth ".....	3	2	5
Fifteenth ".....	2	1	3
Sixteenth ".....	1	1	2
Seventeenth ".....	1	0	1
Eighteenth ".....	0	0	0
Nineteenth ".....	0	0	0
Twentieth ".....	0	1	1
Twenty-first ".....	0	0	0
" second ".....	1	0	1
" third ".....	2	3	5
" fourth ".....	1	1	2
" fifth ".....	1	1	2
" sixth ".....	0	1	1
" seventh ".....			
Total.....	1293	284	1577

TABLE No. 8.

Color.

	Male.	Female	Total
White.....	1230	255	1485
Colored	63	29	92
Total.....	1293	284	1577

TABLE No. 9.

Nativity.

	Male.	Female	Total
United States.....	697	136	833
Ireland	244	66	311
Germany	130	11	141
England	74	27	101
Canada	73	23	96
Scotland	22	11	33
Bohemia	8	0	8
France	6	2	8
Wales.....	12	6	18
Italy	2	0	2
Poland.....	1	0	1
Australia	4	0	4
Switzerland	10	2	12
Russia	3	0	3
Finland.....	2	0	2
Denmark	2	0	2
Sweden	2	0	2
Austria	1	0	1
Total	1293	284	1577

TABLE No. 10.

Education.

	Male.	Female	Total
Could read and write	1094	202	1296
“ “ only	42	28	70
“ neither read nor write	157	54	211
Total	1293	284	1577

TABLE No. 11.

Religious Training.

	Male.	Female	Total
Catholics	659	119	778
Protestants	627	165	802
Jews	4	0	4
Atheists	3	0	3
Total	1293	284	1577

TABLE No. 12.

Habits of Life.

	Male.	Female	Total
Confess themselves intemperate	1112	249	1361
Claim to be temperate	181	35	216
Total	1293	284	1577

TABLE No. 13.

Social Relations.

	Male.	Female	Total
Married	456	214	770
Single.....	837	70	907
Total.....	1293	284	1577

TABLE No. 14.

Age when Admitted.

	Male.	Female	Total
Under twenty.....	102	24	126
“ thirty and over twenty	443	102	545
“ forty “ “ thirty.....	889	70	459
“ fifty “ “ forty.....	218	47	265
“ sixty “ “ fifty.....	103	32	135
“ seventy “ “ sixty.....	32	8	40
“ eighty “ “ seventy.....	6	1	7
Total.....	1293	284	1577

TABLE No. 15.

Occupations.

MEN.		MEN.	
Axe Polisher	1	Catcher	1
Artist	1	Calkers	2
Bakers	8	Currier	1
Blacksmiths	26	Cutter	1
Barbers	15	Cane seater	1
Boiler makers	16	Chair maker	1
Book-keepers	7	Chain maker	1
Book binders	5	Dentist	1
Brick layers	10	Engineers	14
Butchers	18	Eleecto plater	1
Burnisher	1	Firemen	27
Basket maker	1	Farmers	10
Brick makers	2	Farriers	2
Bridge builders	2	File grinder	1
Barrel maker	1	Fresco painter	1
Bolt makers	2	Finishers	2
Brush maker	1	Florist	1
Case maker	1	Gardeners	13
Carpenters	32	Gunsmith	1
Cigar makers	20	Glass-blower	1
Clerks	17	Grooms	2
Coopers	11	Hostlers	8
Cooks	13	Heaters	6
Canvasser	1	Harness maker	1
Cigar packers	3	Hatter	1
Carriage painter	1	Insurance Agent	1
Cabinet makers	4	Inventor	1
Chiropodist	1	Joiner	1
Commercial travelers	3	Journalist	1
Coachmen	5	Laborers	573
Carriage maker	3	Lawyers	5
Carriage trimmer	2	Lithographer	1

TABLE No. 15 — *Continued.*

MEN.		MEN.	
Locksmith	1	Spring makers.....	3
Mill hand	1	Steel polishers.....	8
Machinists	21	Stone cutters....	13
Moulders.....	22	Sawyers	2
Masons	7	Saddler.....	1
Marble Cutter.....	1	Sailmaker.....	1
Miners	4	Silver platers.....	2
Metal buffer.....	1	Saloon keeper.....	1
Musicians	4	Slater.....	1
Organ Builder.....	1	Ship carpenter.....	1
Painters	44	Steward	1
Printers.....	17	Steam fitter	1
Photographer.....	1	Tanners	10
Paper maker.....	1	Teamsters.....	14
Physician	1	Tinsmiths.....	12
Plasterers.....	5	Tin-plater.....	1
Puddlers.....	6	Umbrella maker	1
Plumbers	2	Veterinary surgeon.....	1
Peddlers	4	Varnishers	2
Paper hangers.....	2	Wireworker	1
Postal clerk..	1	Waiters	7
Quarrymen	5	Wheelwright.....	1
Railroaders	8	Whitewashers	5
Roughers	2	Wire-drawer	1
Rivetters.....	2	Wood-worker	3
Rodman.....	1	Well digger.....	2
Roofer	1	Weaver.....	2
Sailors	63	.....	.....
Shoemakers	48	.....	.....
Total Men.....		1293	

TABLE No. 15—*Concluded.*

WOMEN.		WOMEN.	
Cooks.....	4	Milliner.....	1
Dress makers.....	4	Music teachers.....	3
Houseworkers.....	259	Seamstresses.....	5
Hair dressers.....	1	Weaver.....	1
Laundresses.....	6		
Total Women.....		284	
RECAPITULATION.			
Total Number of Men.....		1293	
Total Number of Women.....		284	
Total Number of Men and Women.....		1577	

HOUSE OF REFUGE STATISTICS.

TABLE No. 1.

	Boys.	Girls	Total
Remaining January 1, 1881.....	100	21	121
Whole number committed during 1881....	34	6	40
Total.....	134	27	161
Discharged during 1881.....	53	7	60
Total remaining December 31st, 1881.....	81	20	101

TABLE No. 2.

Number Received during the Year.

	Boys.	Girls	Total
Remaining January 1st, 1881.....	100	21	121
Received during January, 1881.....	2	1	3
“ “ February, “.....	0	0	0
“ “ March, “.....	9	1	10
“ “ April, “.....	3	0	3
“ “ May, “.....	2	0	2
“ “ June, “.....	2	0	2
“ “ July, “.....	0	1	1
“ “ August, “.....	4	2	6
“ “ September, “.....	3	1	4
“ “ October, “.....	3	0	3
“ “ November, “.....	4	0	4
“ “ December, “.....	2	0	2
Total.....	134	27	161
Discharged during 1881.....	53	7	60
Remaining December 31st, 1881.....	81	20	101

TABLE No. 3.

From Where those Admitted during the Year were Received.

	Boys.	Girls	Total
Police Court.....	33	6	39
Parents, (to pay boarding).....	1	0	1
Total	34	6	60

TABLE No. 4.

Crimes and Offenses.

	Boys.	Girls	Total
Incorrigible conduct	18	4	22
Petit larceny.....	6	1	7
Homeless	1	0	1
Vagrancy	4	0	4
Awaiting trial.....	3	0	3
Burglary.....	1	0	1
Incorrigibility and common beggar.....	0	1	1
Subject to order of Court (Police).....	1	0	1
Total	34	6	40

TABLE No. 5.

Discharged during the Year.

	Boys.	Girls	Total
Received honor	21	2	23
Pardon	21	4	25
Escape	1	0	1
Death	2	0	2
Writ of habeas corpus.....	4	1	5
Taken to Court.....	4	0	4
Total.....	53	7	60

TABLE No. 6.
Color.

	Boys.	Girls.	Total
White	31	5	36
Colored	3	1	4
Total	34	6	40

TABLE No. 7.
Nativity.

	Boys.	Girls.	Total
United States	29	4	33
Germany	1	2	3
England	2	0	2
Canada	2	0	2
Total	34	6	40

TABLE No. 8.
Religious Training.

	Boys.	Girls.	Total
Protestant	14	5	19
Catholic	19	1	20
Jews	1	0	1
Total	34	6	40

TABLE No. 9.

Education.

	Boys.	Girls.	Total
Could read and write	22	4	26
" " only	3	1	4
" neither read nor write	9	1	10
Total	34	6	40

TABLE No. 10.

Social Relations.

	Boys.	Girls.	Total
Having both parents	19	3	22
" one parent only.	13	3	16
Orphans	2	0	2
Total	34	6	40

TABLE No. 11.

Age when Admitted.

	Boys.	Girls.	Total
Under ten	5	0	5
Ten and under twelve	5	1	6
Twelve and under fifteen	16	4	20
Fifteen and under eighteen	8	1	9
Total	34	6	40

TABLE No. 12.
Monthly Average in Confinement during the Year.

	Boys.	Girls	Total.
Average during January	95.03	22.13	117.16
“ “ February	94.43	21.84	115.77
“ “ March	97.16	21.93	119.09
“ “ April	99.03	22.	121.03
“ “ May	92.03	21.13	113.16
“ “ June	91.15	21.13	112.28
“ “ July	92.20	21.06	113.26
“ “ August	93.	21.19	114.19
“ “ September	87.82	22.27	110.09
“ “ October	81.20	21.10	102.30
“ “ November	83.03	21.	104.03
“ “ December	81.30	20.22	101.52
Monthly attendance for the year	90.62	21.37	111.99

HOSPITAL DEPARTMENT.

HOSPITAL DEPARTMENT.

CLEVELAND, O., February 18, 1881.

To the Honorable Board of Directors of the Cleveland Workhouse and House of Refuge and Correction :

GENTLEMEN:—

I have the honor to present a complete report of the Hospital Department of the Cleveland Workhouse and House of Refuge and Correction, from January 1st, 1881, to December 18th, 1881.

No. of visits,	-	-	-	-	306
" " Patients treated,	{	Males,	880		
		Females	433		
				—	1,213
" " Prescriptions Dispensed,	{	Males,	1,850		
		Females,	710		
				—	2,560

Five deaths; one pulmonary consumption, (phthisis pulmonalis); one from consumption of the bowels, (tabes mesenterica); one from abdominal dropsy, (ascites); one from epilepsy, and one moribund when admitted.

The duties which have devolved upon me have been arduous but they have afforded me great pleasure in relieving the physical ailments of the prisoners. For the kind care and close attention given to the sick by the matron and other officers, I desire to express my warmest thanks.

Allow me to suggest the following improvements which will greatly assist in making the prisoners more healthful and tend to lessen the mortality.

First: that the dormitories of the prisoners, especially in the male department, have better ventilation.

Secondly: that the clothing of the prisoners during the warm months be partly woolen, and during the cold weather, entirely woolen.

In comparing the mortality reports of the Ohio Penitentiary for six years, with the reports of this institution for the same time, as well as the expenses for the same period, I find the number of prisoners sick in the Ohio Penitentiary to be eleven thousand, eight hundred (11,800) with one hundred and fifteen deaths, and the cost of medicine and medical attention was eleven thousand seven hundred and twelve dollars and ninety-three cents (\$11,712.93) or ninety-nine cents (99) for each patient. For the same years the Cleveland Workhouse treated seven thousand four hundred and forty one (7,441) patients, with seventeen (17) deaths; and at a cost of four thousand two hundred and ninety-two dollars and forty-six cents, (\$4,292.46), or fifty-eight (58) cents for each patient. This gives a rate of mortality in favor of the Cleveland Workhouse of four hundred and fifty (450) per cent, and in expense in favor of the same of forty one (41) cents per patient.

With the best mortality reports from other workhouses we are thirty-six (36) per cent better than Detroit, and fifty-seven (57) per cent better than Allegheny, Pa.

During the eleven years, eleven thousand seven hundred and eighty-nine (11,789) patients have been cared for; twenty-five thousand and sixty-three (25,063) prescriptions given; the number of deaths thirty-five (35), and the entire expense for medicine and medical attention, seven thousand eight hundred and eighty dollars and ninety-nine cents (\$7,880.99). The cost for each patient less than sixty-six (66) cents, and for each prescription seven (7) cents.

In conclusion, gentlemen, permit me to say that though my connection as Medical Director has been severed, I sincerely trust that the medical government may be so conducted that

its future may be more prosperous than it has ever been in the past.

With the best wishes for the success of this noble institution,
Believe me

Yours very Respectfully,

H. F. BIGGAR,

Surgeon in Charge.



Classified statement of cases under treatment in the Hospital
of the Cleveland Workhouse from January 1st, 1881, to December 18th, 1881.

Abscesses.....	18
Adenitis.....	16
Alcoholism.....	10
Anchylosis.....	1
Asthma.....	7
Bronchitis.....	76
Burns.....	1
Catarrh, Nasal.....	11
Concussion of Brain.....	1
Congestion of Lungs.....	14
Constipation.....	5
Contusion.....	2
Coryza.....	18
Cystitis.....	2
Debility.....	6
Delirium Tremens.....	5
Diabetes.....	1
Diarrhœa.....	74
Diphtheria.....	5
Diphtheritic.....	41
Dropsy.....	4
Dysentery.....	4
Dyspepsia.....	4
Eczema.....	10

Eneuresis.....	2
Epilepsy.....	14
Erysipelas.....	2
Fever, Billous.....	43
" Intermittent.....	31
" Typhoid.....	10
Fistula in ano.....	2
Fractures of Clavicle.....	3
" Limbs.....	10
Frozen Feet.....	2
Gastritis.....	6
Gestation.....	7
Gonorrhœa.....	26
Hemorrhoids.....	3
Laryngitis.....	2
Lumbago.....	10
Malaria.....	163
Masturbation.....	3
Measles.....	15
Menorrhagia.....	3
Nephritis.....	6
Neuralgia.....	25
Orchitis.....	3
Palpitation.....	3
Phthisis Pulmonalis.....	1
Pleurisy.....	8
Pneumonia.....	2
Pyæmia.....	1
Rheumatism.....	283
Rupture.....	4
Sciatica.....	2
Sprains.....	16
Stomatitis.....	5
Stricture.....	3
Suppression of Menses.....	39
Syphilis.....	17
Tabes Mesenterica.....	1
Teeth pulled.....	25
Tonsilitis.....	27
Toothache.....	4

Ulcers.....	18
Uterus Displacement.....	2
Varicose Veins.....	8
Vertigo.....	1
Wounds, bullet.....	1
" various.....	21
Total.....	<u>1,218</u>

ANNUAL REPORT
OF THE
BOARD
OF
INFIRMARY DIRECTORS,
OF THE
CITY OF CLEVELAND,
FOR THE YEAR ENDING DECEMBER 31st, 1881.

CLEVELAND, O., January 2, 1882.

*To the Honorable R. R. Herrick, Mayor,
and the Honorable City Council.*

GENTLEMEN:—We herewith hand you our annual report for
the year 1881.

DIRECTORS' REPORT.

Total number of applicants relieved in 1880.....	1,549
Total number of applicants relieved in 1881.....	1,474
Decrease in 1881.....	75
 Total number admitted at the Infirmary in 1880.....	 393
Total number admitted at the Infirmary in 1881.....	461
Increase in 1881..	68
 Total number of applicants relieved by out-door relief in 1880....	 1,156
Total number of applicants relieved by out-door relief in 1881....	1,018
Decrease in 1881.....	148

OUT-DOOR RELIEF DISBURSED.

Flour, - - - - -	108,989
Corn-meal, - - - - -	14,739
Potatoes, - - - - -	11,132
Beans, - - - - -	9,095
Tea, - - - - -	1,152
Coffee, - - - - -	2,238
Rice, - - - - -	4,111
Oat-meal, - - - - -	7,638
Sugar, - - - - -	7,334
Peas, - - - - -	486
Soap - - - - -	890
Number of meat orders, - - - - -	285
Number of pairs of shoes, - - - - -	70
Number of tons of coal, - - - - -	1,638
Number of railway passes, - - - - -	571
Number of burials, - - - - -	106

WORK SYSTEM

Total number of work orders issued.....	256
Total number returned, approved.....	158
Number issued and not returned.....	98
Number of days worked.....	282
Amount earned—paid in coal and groceries.....	\$288 63

INFIRMARY FUND.

RECEIPTS.

Balance on hand January 1st, 1881.....	\$18,813 10
Received from taxes.....	14,434 44
Received from County.....	2,765 02
Received at the Infirmary office.....	2,181 64
Received from City Clerk.....	3,961 00
Receipts—miscellaneous.....	88 90
Total receipts.....	\$42,144 10

DISBURSEMENTS.

Ordinary expense at City Infirmary.....	\$18,358 28
Permanent improvements at the City Infirmary.....	1,477 65
Insurance.....	187 50
Ordinary expense—out-door relief.....	15,959 32
December claims, 1880—ordinary expense.....	3,870 76
Balance on hand January 1881.....	2,200 59
Total disbursements.....	\$42,144 10

RESOURCES.

Amount due from Cuyahoga County, June 30th.....	\$3,460 48
Amount due from Cuyahoga County, September 30th.....	2,499 19
Approximate amount due from Cuyahoga County, Dec. 31st.....	2,800 00
Amount due from various townships December 31st.....	400 00
Total.....	\$9,159 67

CITY INFIRMARY.

	Male.	Female	Total.
Number of inmates remaining Dec. 31st, 1880.....	178	133	311
Number of inmates admitted during the year.....	266	195	461
Number of inmates born during the year.....	16	12	28
Total.....	460	340	800

	Male.	Female	Total.
Number of inmates discharged during the year.....	222	164	386
Number of deaths during the year.....	63	30	94
Number remaining at date—Dec. 31st, 1881.....	175	146	320
Total.....	460	340	800

Average weekly number..... 298

INSANE DEPARTMENT.

	Male.	Female	Total.
Number of inmates remaining Dec. 31st, 1880., ...	60	74	134
Number admitted from the Insane Asylum.....	3	13	16
Number admitted on applicat'n of friends and relat'ns	2	1	2
Number received from the County Jail	9	12	21
Number improved and removed by friends.....	3	6	9
Number removed and taken to the Asylum.....		1	1
Number escaped.....	1		1
Number of deaths during the year.....	8	9	17
Number remaining at date—Dec. 31st, 1881.....	62	84	146

Average weekly number..... 141

Cost of keeping each inmate—per week..... \$1 18

Net cost per head, including interest at six per cent. on investment
of \$178,000, the value of the Infirmary farm and buildings,
per week..... \$1 08

NATIVITY OF THOSE ADMITTED.

United States,	138
Germany,	108
Ireland,	96
England,	40
Wales,	8
Scotland,	11
Canada,	20
Bohemia,	14
Hungary,	8
Norway,	2
Switzerland,	6
Poland,	3
Italy,	2
Denmark,	2
Sweden,	3
Unknown,	5

OCCUPATIONS OF THOSE ADMITTED.

Bakers,	2
Barber,	1
Butchers,	4
Broom-maker,	1
Blacksmiths,	7
Brewers,	2
Coopers,	4
Carpenters,	4
Cooks,	2
Clerks,	2
Farmers,	4
Fortune-tellers,	2
Finishers,	2
Engineers,	4
Housekeepers,	32
Hostlers,	6
Gardeners,	5
Laundresses,	10
Laborers,	114
Machinists,	4
Moulders,	2
Painters,	9
Porters,	4
Puddlers,	2

Plumbers,	2
Physicians,	2
Servants,	58
Seamstresses,	10
Stone-masons,	4
Sailors,	22
Shoemakers,	10
Tailors,	3
Tin-smiths,	2
Teamsters,	4
Tramps,	4
Teachers,	2
Waiters,	2
Balance—unknown,	117

Most all of those unknown were persons of bad repute.

HOSPITAL DEPARTMENT.

	Male.	Female	Total.
Number of patients remaining Dec. 31st, 1880.....	41	19	60
Number received during the year.....	193	118	311
Number of births during the year.....	16	12	28
Total.....	250	149	399

	Male.	Female	Total.
Number discharged cured or improved during year.	152	99	254
Number of Deaths.....	56	21	77
Number Remaining January 1st, 1882.....	42	29	70
Total.....	250	149	399

DEATHS IN THE INSANE DEPARTMENT.

Male.....	8
Female.....	9
Total.....	17
Total number of deaths.....	94

CAUSES OF DEATH.

Consumption,	21
Typhoid fever,	2
Bright's disease,	2
Gastro-enteritis,	2
Paralysis,	12
Cancer,	6
Enteritis,	11
Inflammation of brain,	1
Bronchitis,	2
Delerium tremens,	2
Heart disease,	5
Dropsy,	4
Syphilis,	2
Cystitis,	1
Fracture of skull,	1
Chronic diarrhœa,	2
Epilepsy,	4
Diffuse Cellulitis,	1
Pluero-pneumonia,	2
Abcess of kidney,	1
Apoplexy,	1
Burn,	1
Hip disease,	1
Debility of age,	3
Inanition,	4
Total,	94

ARTICLES MANUFACTURED,

AT COST OF MATERIAL ONLY, BY THE INMATES.

MALE DEPARTMENT.

Pairs of shoes	298
Water pails.	30
Wash tubs,	30
Buckets,	75
Bebs ends.	18
Small tables,	20
Coffins,	109
Large coal shed,	1

An addition to the straw barn, size 20 x 30 feet, and all repairing about the building and farm.

FEMALE DEPARTMENT.

In charge of the Seamstress, Miss Margaret Adams

Pairs of pants	208
Pairs overalls.	112
Flannel drawers,	42
Flannel shirts,	40
Cotton shirts,	320
Cotton over-shirts,	100
Vests,	114
Dresses,	202
Skirts	258
Flannel skirts,	46
Flannel drawers,	35
Chemise,	140
Night gowns, ,	30
Aprons,	106
Sheets,	258
Pillow slips,	50
Pillow ticks,	78
Bed ticks,	90

Table-cloths,	20
Tight jackets,	50
Spreads,	52
Towels,	35
Comforts and quilts,	90
Pairs stockings,	30
Women's caps,	20
Suits baby clothes,	13
Door mats,	15
Total articles,	<u>2,631</u>

PRODUCE OF THE FARM

580 bushels wheat ———	\$1.35 per bushel,	\$783 00
369 " oats, 49 "	. . . . .	177 12
1 445 " corn, 65 "	. . . . .	939 25
779 " potatoes, 1.00 "	. . . . .	779 00
49 " onions, 1.00 "	. . . . .	49 00
60 " apples, 1.00 "	. . . . .	60 00
149 " carrots, 50 "	. . . . .	74 50
160 " beets, 50 "	. . . . .	80 00
234 " turnips, 50 "	. . . . .	117 00
75 " parsnips, 50 "	. . . . .	37 50
4 " beans, 1.50 "	. . . . .	6 00
12,090 pounds pork, .08 per pound,		967 20
458 " beef, .06 "	. . . . .	25 64
9 tons hay, 18.00 per ton,		162 00
20 acres cornstalks, 5.00 per acre,		100 00
40 " { wheat and } 5.00 "	. . . . .	200 00
oat straw, }		
2,181 heads cabbage, .08 per head,		174 48
40 loads pumpkins, 1.50 per load,		60 00
Vegetables and small fruits,		<u>100 00</u>
Total value,		\$4,891 69

FARM STOCK.

5 Horses.	4 Calves.	4 Breeding Sows.
9 Cows.	23 Feeding Swine.	1 Boar.
1 Bull.	31 Store Pigs.	60 Poultry.

SALARIES OF OFFICERS AND EMPLOYEES.

OFFICERS.

1 Superintendent, per year,	\$1,000
1 Clerk, per year	1,100
1 Physician, per year,	1,000
1 Steward, per year,	800
1 Matron, per year,	350

EMPLOYEES.

1 Messenger, per month,	\$60 00
1 Messenger, per month,	50 00
1 Coal weigher, per month,	50 00
1 Baker, per month,	35 00
1 Engineer, per month,	30 00
1 Farmer, per month,	25 00
1 Hospital-nurse, per month,	25 00
1 Hospital-nurse, per month,	13 00
1 Insane-nurse, per month,	28 00
1 Insane-nurse, per month,	18 00
2 Insane-nurses, per month—each,	13 00
1 Insane-nurse, per month,	8 00
1 Seamstress, per month,	17 67
1 Cook, per month;	8 00
1 Laundress, per month,	7 00

The employees of the Out-door Relief Department are only employed during the winter months.

Respectfully submitted,

J. C. BARTLETT,
 GEORGE KIEFFER,
 WM. CUBBON,
Infirmary Directors.

ANNUAL REPORT
OF THE
BOARD
OF
CEMETERY TRUSTEES,
TO THE
CITY COUNCIL,

FOR THE YEAR ENDING DECEMBER 31, 1881.

TRUSTEES:
GUSTAVUS A. HYDE, PRESIDENT.
G. A. HYDE, TREASURER.
JACOB MEYER. O. C. SCOVILL.
L. W. BAILEY, SECRETARY.

CLEVELAND, O.:
HOME COMPANION PUBLISHING CO.
1882.

SUPERINTENDENTS OF CEMETERIES.

**WOODLAND,
S. F. DRAKE.**

**ERIE STREET,
E. M. BISHOP, Sr.**

**MONROE STREET,
VALENTINE WORTH.**

**HARVARD GROVE (EIGHTEENTH WARD),
JAMES MCGUFFEY.**

**GENERAL CLERK OF CITY CEMETERIES,
C. E. WHEELER,
WITH OFFICE AT WOODLAND.**

CLEVELAND, O., January 2, 1882.

To the Honorable City Council of Cleveland, O.:

GENTLEMEN: I have the honor to herewith present your honorable body with the annual report of this board for the year ending December 31, 1881.

Respectfully yours,

L. W. BAILEY, *Secretary.*

REPORT OF CEMETERY TRUSTEES.

CLEVELAND, O., January 2d, 1882.

To the Honorable City Council:

GENTLEMEN:—The undersigned Trustees of Cemeteries respectfully submit herewith our Annual Report for the year 1881, of the business transacted by us in the management of the several city cemeteries under our control.

The term of Trustee James Parker expired in April last, and at the municipal election on the first Monday in April Mr. O. C. Scovill was elected for three years.

At the first meeting of the Board after said election the following organization was perfected. Trustee O. C. Scovill having qualified took his seat. Gustavus A. Hyde was elected President, and he was also elected Treasurer for the third time. L. W. Bailey was elected Secretary.

It will be seen upon examination of the tabulated statements of finances that the Board has conducted all matters connected with the several cemeteries with a due regard for the best interest of the city, and with strict economy. The result of which is a good balance in bank drawing interest.

There have been many improvements made during the past year, at an outlay of \$19,818.51.

WOODLAND AVENUE CEMETERY has been improved to the amount of \$11,767.06 in the completion of the chapel and receiving vault commenced in 1880, which we think is second to none in the State. A sewer which was very necessary to carry off the water from the vault, and the extension of water pipes.

ERIE STREET CEMETERY has received improvements to the extent of \$100, expended for trees and shrubbery.

MONROE STREET CEMETERY has received improvements in the way of shrubbery to the amount of \$13.00.

THE EIGHTEENTH WARD CEMETERY, on Axtell street, was sold during the past year through the legislation of your honorable body to the Connotton Valley Railroad Company for a much larger tract of land on Harvard street, and the payment of \$6,506. This necessitated the removal of all the remains interred in the old, to the new cemetery, as well as the monuments and headstones. This was a great undertaking, and under the personal supervision of our President Trustee G. A. Hyde, has been successfully accomplished without any accident or hard feelings on the part of the friends of the departed ones whose remains were entrusted to the care of this Board.

There has been erected upon this new ground a suitable building for the Superintendent, which is now nearly completed. This, with the removal of the remains, monuments and headstones and laying out this new ground has improved it to the amount of \$7,938.45.

It has not come to our knowledge that any attempt has been made during the year to rob a grave in any of the cemeteries under the control of this Board, and we trust that no such attempt has been made, as we have taken every precaution to prevent it.

The Board take this opportunity to return thanks to all officers and employes connected with us in the management of the several cemeteries for the faithful and efficient manner with which they have discharged the duties imposed upon them.

Following this are the tabulated statements prepared by the Secretary, showing the amount of business done; the receipts and disbursements at the several cemeteries during the year just closed, all of which is respectfully submitted.

GUSTAVUS A. HYDE,
J. MEYER,
OLIVER C. SCOVILL,

L. W. BAILEY,
Secretary.

Cemetery Trustees.

The interments during the year have been as follows :

Cemeteries.	ADULTS.		MINORS.		Grand Total.
	Male.	Female.	Male.	Female.	
Woodland Avenue.....	288	231	306	283	1,108
Erie Street.....	30	26	88	73	226
Monroe Street	104	70	152	124	450
Eighteenth Ward.....	26	31	39	37	133
Totals	457	358	585	517	1,917

The lots and grave spaces sold in the City Cemeteries for the year, were as follows :

Cemeteries.	No. Sold.	Amount.	Cash.	Credit.
Woodland Avenue	505	\$9,910 00	\$6,463 50	\$3,446 50
Erie Street.....	85	239 00	219 00	20 00
Monroe Street	11	770 00	325 00	445 00
Eighteenth Ward	18	75 00	75 00	.....
Total.....	619	\$10,994 00	\$7,082 50	\$3,911 50

WOODLAND CEMETERY RECEIPTS.

From What Source Received	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$183 00	\$308 75	\$1,128 00	\$1,474 50	\$1,417 83	\$ 443 00	\$1,434 50	\$1,109 50	\$ 881 00	\$ 938 25	\$1,031 50	\$324 00
Services & vault fees.	237 40	180 49	311 86	787 87	1,116 42	573 70	628 19	664 32	435 50	737 41	593 81	330 25
Total Receipts...	\$420 40	\$489 24	\$1,439 86	\$2,241 37	\$2,534 25	\$1,016 70	\$2,062 69	\$1,773 82	\$1,416 50	\$1,676 66	\$1,625 31	\$854 25

WOODLAND CEMETERY EXPENDITURES.

For What Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll.....	\$ 258 75	\$251 25	\$ 298 94	\$ 471 80	\$ 818 44	\$ 694 43	\$ 702 14	\$669 23	\$ 502 48	\$ 443 72	\$376 55	\$374 50
Current expenses....	51 77	11 30	37 74	51 65	288 81	232 17	75 30	124 28	35 25	247 13	84 87	104 76
Improvements.....	880 13	368 40	838 57	1,147 45	2,312 82	1,908 05	1,728 70	.....	1,680 23	507 09	50 00	400 12
Total expenses...	\$1,190 65	\$628 95	\$1,173 25	\$1,670 40	\$3,417 57	\$2,832 65	\$2,508 14	\$783 56	\$2,167 96	\$1,197 94	\$510 92	\$879 44

ERIE STREET CEMETERY RECEIPTS.

From What Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces	\$ 17 50	\$12 50	\$ 10 00	\$ 12 50	\$ 25 00	\$ 7 50	\$ 54 00	\$ 19 00	\$ 18 50	\$ 31 00	\$15 00	\$19 00
Services & vault fees.	89 00	65 50	109 85	145 68	114 95	147 88	120 00	120 95	108 06	129 22	67 45	74 00
Total receipts.....	\$103 50	\$78 00	\$119 85	\$158 13	\$139 95	\$155 38	\$174 00	\$130 95	\$124 55	\$160 22	\$32 45	\$38 00

ERIE STREET CEMETERY EXPENDITURES.

For What Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll.....	\$ 93 75	\$ 90 00	\$105 00	\$123 75	\$161 47	\$179 38	\$164 32	\$133 00	\$140 43	\$131 19	\$123 13	\$ 97 55
Current expenses....	17 75	15 36	10 40	19 30	18 02	18 98	28 69	34 33	19 07	38 62	3 66	16 09
Improvements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100 00	.....
Total expenses..	\$111 50	\$105 36	\$115 40	\$143 05	\$179 49	\$198 36	\$193 62	\$167 33	\$159 50	\$164 81	\$226 76	\$113 64

MONROE STREET CEMETERY RECEIPTS.

From What Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces	\$ 50 00	\$ 80 00	\$ 92 50	\$ 145 00	\$ 180 00	\$ 150 50	\$ 160 00	\$ 150 00	\$ 122 10	\$ 115 00	\$ 90 00	\$ 37. 50
Services & vault fees....	162 25	79 25	151 00	214 50	290 00	233 75	351 25	246 00	199 50	102 50	157 75	189 00
Total Receipts....	\$242 25	\$159 25	\$243 50	\$359 50	\$480 00	\$385 25	\$411 25	\$396 00	\$322 00	\$277 50	\$253 75	\$226 50

MONROE STREET CEMETERY EXPENDITURES.

For What Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll	\$208 63	\$156 00	\$169 08	\$262 49	\$365 96	\$353 50	\$310 81	\$328 70	\$270 51	\$593 00	\$201 50	\$207 75
Current expenses.....	8 00	9 94	27 23	20 60	37 94	19 12	45 82	23 15	13 87	22 54	44 50	12 76
Improvements					13 00							
Total expenses....	\$216 63	\$165 94	\$196 31	\$283 09	\$416 90	\$372 62	\$356 63	\$351 85	\$283 91	\$315 54	\$246 00	\$230 51

EIGHTEENTH WARD CEMETERY RECEIPTS.

From What Source Received.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces	\$20 00	\$10 00	\$ 4 50	\$ 3 00	\$20 00	\$ 5 00	\$ 6 00	\$ 6 00	\$ 8 00	*\$6,508 00	\$124 00	\$248 50
Services and vault fees	19 50	19 50	23 50	55 00	50 00	25 50	35 50	37 00	44 50	17 70	13 10	57 50
Total Receipts.....	\$39 50	\$29 50	\$28 00	\$58 00	\$70 00	\$30 50	\$41 50	\$43 00	\$52 50	\$6,525 70	\$157 10	\$306 00

* This amount was received on the exchange of new grounds for old—sold to the Connotton Railroad Company.

EIGHTEENTH WARD CEMETERY EXPENDITURES.

For What Purpose Expended.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$40 00	\$ 64 00	\$52 00
Current expenses	1 00	1 00	...	...	2 35	...	...	1 10	...	1,772 85	3,323 20	2,842 81
Improvements .....	...	...	...	...	...	...	...	...	...	...	...	...
Total expenses	\$40 00	\$41 00	\$40 00	\$40 00	\$42 35	\$40 00	\$40 00	\$41 10	\$40 00	\$1,812 85	\$3,387 20	\$2,894 81

RECAPITULATION.

Cemeteries and Sundries.	Receipts.	Expenses.	Excess.	Deficit.
Woodland Avenue.....	\$17,550 55	\$18,959 43	.. .. .	\$1,309 88
Erie Street.....	1,528 48	1,879 26	.. .. .	350 78
Monroe Street.....	3,769 75	3,432 55	\$337 20	.....
Eighteenth Ward.....	7,368 00	8,458 90	.. .. .	1,090 90
Interest on deposits.....	185 50	.....	185 50	.....
Amount paid for general bills.....	.....	123 23	.....	123 23
Total.....	\$30,411 28	\$32,853 87	\$522 70	\$2,964 79

Total amount expended.....	\$32,853 87
Receipts from all sources.....	30,411 58
Excess of expenses over receipts.....	\$2,442 09
Total Deficit.....	\$2,964 79
Total Excess.....	522 70
Net deficit for 1881.....	\$2,442 09

GROSS RECEIPTS OF THE SEVERAL CEMETERIES FOR THE YEARS
1878, 1879, 1880 AND 1881.

Year.	Woodland Ave.	Erie Street.	Monroe Street.	18th Ward.
1878.....	\$ 8,622 49	\$1,089 13	\$ 3,150 48	\$ 331 75
1879	9,998 51	1,223 69	3,184 00	459 50
1880	15,550 18	1,427 60	2,957 10	448 25
1881. :	17,550 55	1,528 48	3,769 75	*7,368 00
Total ...	\$51,730 73	\$5,218 90	\$13,061 33	\$8,607 50

* \$6,506.00 of this amount was received of the Connotton Valley Railroad Co. on exchange of Axtell Street Cemetery for the present one, on Harvard street.

TREASURER'S SUMMARY.

Amount on hand January 1st, 1881			\$ 7,165 79
<i>Received from sale of lots and grave spaces.</i>			
Woodland Avenue Cemetery	\$10,022 83		
Erie Street Cemetery	241 50		
Monroe Street Cemetery	1,401 00		
Eighteenth Ward Cemetery	6,960 00		
Total		\$19,525 33	
<i>Received for services.</i>			
Woodland Avenue Cemetery	\$5,565 37		
Erie Street Cemetery	895 61		
Monroe Street Cemetery	1,989 00		
Eighteenth Ward Cemetery	358 00		
Total		\$ 8,805 98	
<i>Received for vault fees.</i>			
Woodland Avenue Cemetery	\$1,071 35		
Erie Street Cemetery	391 37		
Monroe Street Cemetery	379 75		
Eighteenth Ward Cemetery	52 00		
Total		\$ 1,894 47	
Received interest on deposits		185 50	
Total receipts			\$20,411 28
Grand total			\$37,577 07
<i>Amount paid—pay rolls and current expenses.</i>			
Woodland Avenue Cemetery	\$7,192 37		
Erie Street Cemetery	1,779 26		
Monroe Street Cemetery	3,419 55		
Eighteenth Ward Cemetery	520 45		
Total		\$12,911 63	
<i>Amount paid for improvements.</i>			
Woodland Avenue Cemetery	\$11,767 06		
Erie Street Cemetery	100 00		
Monroe Street Cemetery	13 00		
Eighteenth Ward Cemetery	7,938 45		
Total		\$10,818 51	
Amount paid for general bills		123 23	
Total			\$2,853 37
Balance to credit of fund January 1st, 1882			\$4,723 70

TREASURER'S SUMMARY—*Continued.*

Amount to credit of fund arising from sale of lots and grave spaces, January 1st, 1881.....	\$ 7,165 79
Received during the year from sale of lots and grave spaces	19,525 33
Received interest on deposits	185 50
Total	<u>\$26,876 62</u>
Amount taken from the fund arising from the sale of lots and grave spaces, to pay rolls and current expenses.....	\$ 2,334 41
Expended for improving and embellishing the cemeteries....	19,818 51
Total	<u>\$22,152 92</u>
Balance January 1st, 1882, to credit of fund	4,723 70
Amount to credit of fund for general purposes, Jan'y 1st, 1881..	600 00
Received during the year for services and vault fees.....	10,700 45
Received from fund arising from sale of lots and grave spaces.	2,334 41
Total.....	<u>\$18,034 86</u>
Pay roll and current expenses during the year.....	13 034 86
Balance January 1st, 1882, to credit of general fund.	000 00
Total amount running expenses for the year.....	13,034 86
Total receipts for services and vault fees.....	<u>10,700 45</u>
Amount taken from the fund arising from the sale of lots and grave spaces	<u>\$2,334 41</u>

It will be seen by the foregoing statement that the running expenses (other than for improvements) of the several cemeteries, are in excess of the receipts for services and vault fees, which receipts constitute the fund from which the running expenses should be paid. This has been the case for years past, and consequently the fund derived from the sale of lots and grave spaces has been used, when needed, to make up the deficiency. By using this fund, as stated above, the cemeteries have been self sustaining and will continue to be until all the lots and grave spaces have been sold; then it will be necessary for your Honorable Body to provide for the purchase of more

land for cemetery purposes, by levy or otherwise, as you may deem best.

The following will show the excess of running expenses over receipts (applicable for the purpose) of the several cemeteries during the past year :

For Woodland Avenue Cemetery.....	\$ 555 65
For Erie Street Cemetery.....	492 28
For Monroe Street Cemetery	1,060 80
For Eighteenth Ward Cemetery	112 45
Total.....	\$2,211 18
Add to this amount expended for general bills.. ..	123 23
Total excess of expenditures over receipts applicable for this purpose.	\$2,334 41

L. W. BAILEY, *Secretary.*

